	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1783:	
	TCTGGAATGT CTCCTTGTCT CTCTATATAG CTATAGTCCG TCGCAAGCGG ACGTAATGTT	60
10	CATTITCATA ATGATTATAG TATGAAAGCG CTTTCTTGTA TATGTGACAT GTGCGTGTNG	120
	(2) INFORMATION FOR SEQ ID NO: 1784:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1784:	
	CTACCATTTA CATAAAGACC GTCTAATTCT TCAGTTTCAA TGGCATTTTG GAGCAAT	57
25	(2) INFORMATION FOR SEQ ID NO: 1785:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
, .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1785:	
35	TCATAACCAT TACCAAGTAT CCAAGCAGCT TTTAAACAAT ATGGCATAAA CATT	54
	(2) INFORMATION FOR SEQ ID NO: 1786:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1786:	
	GGATGGGTGA TTTTAGCAGG TTTGGCTATG AGTACCGTAT TTGCATTAGG ACCGATTTCA	60
	TTTAACAAA TCATAATITT GGGC	84
50	(2) INFORMATION FOR SEQ ID NO: 1787:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1787:	
	CCGGTTTACC CTTAAAATTA TTTTTTGGGG GGTTCCATTA AACCTTCCAA TTCCCAATTA	60
10	ACCCCDACCC CCCTGGGTTT TCCTTAAAAA CCAAAAGGCC CTTTTTTTTC CCAACCCAAC	120
	CTTGGGGGAA TTGG	134
	(2) INFORMATION FOR SEQ ID NO: 1788:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1788:	
	TATATCAACT AAAAAGCGCA TCTGCAACCG ACGGTTGAAA ATTTGGACAG GAGACAGATA	60
25	ATGTAATATA	70
	(2) INFORMATION FOR SEQ ID NO: 1789:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1789:	
	AATATCCAAT TATACAAGCA GGTATGGCAG GAAGTACGAC ACCGAAATTA	50
40	(2) INFORMATION FOR SEQ ID NO: 1790:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1790:	
50	TGATTTACTA GCTGAATCCG ACATGCTTGA TGATACACTA TGTGAATTCA	50
	(2) INFORMATION FOR SEQ ID NO: 1791:	

5	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1791:	
10	CCGGACGCTT TACTTCCAAC TTTAGGTGGT CAACACAGGT TTAAACATGG CGATGTCA	58
	(2) INFORMATION FOR SEQ ID NO: 1792:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1792:	
	CATCATCCTC TAATTTAGTC CAAACTCCTG GATGATATCC AAATGAAGTT CCAATTGA	58
	(2) INFORMATION FOR SEQ ID NO: 1793:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1793:	
35	CACAAGTTTT AGAAGGAAAC CAATAACAAA TGACGAGATT AATTGCCACA AACATTAACG	60
	AC .	62
	(2) INFORMATION FOR SEQ ID NO: 1794:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(2)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1794:	
	AAGGCCCGGG GGGTTTAAAA AAAAAGGTTT AAAAAAGGTT TTGGCCCTTT AAACCCAAAG	60
50	GGAAATTTTA ACCCCAAAAA AAAAAAACCC CTTTGGGAAA GGG	103
	(2) INFORMATION FOR SEQ ID NO: 1795:	
		
55		

5	(A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1795:	
10	TATCGATCGA TCATGTCGAA TCGATCTGTC GATCGATCGT ATCGATCGAA TCGCGTCGAA	60
	TCGAATHCGT CGAATCGATG CTATCGATCG AATGCTATCT GAGTCGAATC ACGTCGATCT	120
	G	121
15	(2) INFORMATION FOR SEQ ID NO: 1796:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1796:	
	AATTCATGTT AAAATCCTCC TGATATTAGA TGGCCCATTT TTATTTTTTT CGTTTCCATA	60
	TA	62
30	(2) INFORMATION FOR SEQ ID NO: 1797:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1797:	
40	CATACTCGAC AATTTAGATG GTGAATACTT ATCATTTAAG TCCTTTGACA CCTCATCTAA	60
	AATTCTAGGA CTTTTAACAA TTTCTTTATA CGTATTTACA AGTTGAATAT TACTTTGAAC	120
	CTCTTGCGCC ATAAACTGAG GATTGTCACC CTTAGTTTGA TTCACTAAAA TTTGAGTATT	180
45	AGCTTGATAT TTAGGTGATA AGACGAAAAA TGTAACAATA GCGCTAATAA TTAAAAATAA	240
	TAGCGGTAAA ATAATTAAAA TCTTCAAGTT TTTTTGTAAT ACTTCTTTAA TTTTTGTTAA	300
	TTCTAATGTA CTTTCCATTA TTTACCTCCC TTAAAAATTT TCATTAAAAT TGGTATTATA	360
50	TATATAGTAT TTACATATTA CATATCGTTT AAACAAT	397
	(2) INFORMATION FOR SEQ ID NO: 1798:	

5	(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1798:	
10	CGGGTAACAG CGAATGGTGT GTCACCGTAT ATAACTTTAC TATTTAATAT TTGGCCTGTT	60
	GCTTTC	66
	(2) INFORMATION FOR SEQ ID NO: 1799:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799:	
25	GTTGCTAAGT TTGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT	60
	GCAGTAATTT CGCTAGG	7 7
	(2) INFORMATION FOR SEQ ID NO: 1800:	
30 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	(wi) CHOURNER DECERTIONS CEO ID NO. 1900.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800:	60
40	TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAn ACTTTTTAT	60
	TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC	120
	GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT	172
45	(2) INFORMATION FOR SEQ ID NO: 1801:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>5</i> 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1801:	

	AGTAAATTT GTCATCACGA TCAGCAAAAG CTTTTGATTC TGACGTATCT TCCATAAATG	120
5	ATCTAAAAAT TGGTAGTTCG	140
	(2) INFORMATION FOR SEQ ID NO: 1802:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1802:	
	ATCCCCCGTA CAGACTTCAG CTTACGTAAA CATGCTGAAC ACTCTAGTGA AGATTTCAAA	60
20	(2) INFORMATION FOR SEQ ID NO: 1803:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1803:	
30	CAATTTAAAT GCATCTTTCC CATTAATTTC ATTTGTTGTC GCTTTAGCTG TGTTAATTAA	60
	(2) INFORMATION FOR SEQ ID NO: 1804:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1804:	
	ACTTGATCGA AAAGGTTTCA TACCGGTAAA CGATAAAGTT GAAACAAATG	50
45	(2) INFORMATION FOR SEQ ID NO: 1805:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
EE	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1805:	

	(2) INFORMATION FOR SEQ ID NO: 1606:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1806:	
	AAGAACTGTC TATGAATATT GGATGACGCT TTGATGAGAA CATTAGTAAG CCATTTGTTC	60
15	AAGGAGTACA	70
	(2) INFORMATION FOR SEQ ID NO: 1807:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1807:	,
	TAGCATTTCT AATGGAATCC AATCTTACCG AATGACAATT GGAATATAAC TGGTGATAAT	60
30	GTTGAATGGT CCTGTGA	77
	(2) INFORMATION FOR SEQ ID NO: 1808:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1808:	
	CCCGGCCCAA AACCCCTTTT TTGGGTAAAA AATTTTTTTT AAAAAGGGAA AAATTTCCCC	60
45	TTTTTTGGTT CCCAAATTTT AAATTAGAAA GGGCCCCCCC TTCCCCCCCA AATnTTTCCC	120
	A	121
	(2) INFORMATION FOR SEQ ID NO: 1809:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1809:	
5	AAGTTTGGTG AAGGAACCAC GTGCATGATG GTGTTCAAAC AATGCGTTAC GATGTTGACG	60
	(2) INFORMATION FOR SEQ ID NO: 1810:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1810:	
	TGGTTGAGAA AACACAGCGT TAAAGTTGAG GTATTTCAAA AGACAAGTTG GAACATTA	58
20	(2) INFORMATION FOR SEQ ID NO: 1811:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Torozour. Tricur	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1811:	
30	CTTAAATAGC AAGTGGTTTT ATAACAACTT TGAGTTATCT CAATATAGTT ATCGC	55
	(2) INFORMATION FOR SEQ ID NO: 1812:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1812:	
	TAAGTCTTCA ATTTTTTCAG TTGATACACC TAAGTGATAC AGCCATTCTT	50
45	(2) INFORMATION FOR SEQ ID NO: 1813:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<i></i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1813:	

- (A) LENGTH: 1002 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1814:

TGGTCATGCG	GGAAATACTA	GGACATGAAA	ATTATGCTAA	AGGCATCAAA	GTAACTGAAA	60
ATAATGGCGT	AGTGGATATA	GATATGTACA	TTATTGTAAG	TTACGGTGTG	AAAATATCTG	120
AAGTTGCCAA	TAATGTACAA	TCAACAGTGA	AATATACTTT	GGAAAAATCA	CTTAATGTAT	180
CAGTAAATTC	AATCAATATA	TATGTACAAG	GTGTACGTGT	GAATAATACA	GGCAAGAAAG	240
CTTAGGAGGA	CAACTTGAAA	TGATTAGCAA	AATTAATGGT	AAATTATITG	CCGATATGAT	300
TATACAAGGG	GCACAAAATT	TATCTAACAA	TGCAGATTTG	GTAGATTCTT	TGaATGtGtA	360
TCCAGTGCCA	GATGGTGATA	CAGGAACAAA	TATGAATCTT	ACTATGACTT	CAGGTCGCGA	420
AGAAGTAGAG	AATAATTTGT	CGAAAAATAT	CGGCGAATTA	GGTAAAACAT	TCTCGAAAGG	480
TTTACTAATG	GGTGCAAGAG	GTAACnCTGG	TGTCATCTTG	nCACAATTAT	TCAGAGGATT	540
TTGTAAAAAT	ATTGAAAGTG	AATCTGAAAT	TAATTCAAAA	TTGTTAGCTG	AAAGTTTnCA	600
AGCTGGTGTT	GAAACGGCAT	ATAAAGCTGT	TATGAAACCA	GTTGAAGGTA	CAATACTTAC	660
AGTTGCAAAA	GATGCTGCGC	AAGCTGCAAT	AGAAAAAGCA	AATAATACTG	AAGATTGTAT	720
AGAATTAATG	GAGTACATTA	TTGTAAAAGC	CAATGAATCA	CTTGAAAACA	CACCAAACTT	780
ATTAGCTGTA	CTTAAAGAAG	TTGGTGTTGT	TGATAGTGGC	GGTAAAGGTT	TGTTATGCGT	840
TTACGAAGGA	TTCTTAnAAG	CGCTTAAAGG	TGAnAAAGTT	GAAGCCAAAG	TTGCAAAGAT	900
AGATAAAGAT	GAATTTGTAC	ATGATGAACA	TGATTTCCAT	GGTGTAATTA	ATACTGAAGA	960
TATTAATTTA	TGGCTATnGT	ACTGAGATGA	TGGTTCGTTT	TG		1002

(2) INFORMATION FOR SEQ ID NO: 1815:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1815:

	GACAACGCTA TTATTTTTAG TTTTTCAATT CTATTATGTC ATAATTATGT CACTCAAAAA	120				
5	CTGTTTTCCA ACATTGATTT ATTGTTGGAA AATCTCGAAA ATCTAGTCTA TTTCTCCAAC	180				
	AATCGAAGAY TTATGCCCTT TTTTCTCCCT TTAAATAAGT CATAATACGA GGCATACATG	240				
	CAACATTTAC AATAAAATAT GTTCCTACAT CGTATTATAC GAATGCTCAC ACTTATAGTT	300				
10	GTTTAGTAAA CCCAGATGTA TTGCTAACAT ACCCATNANC NCTATATAGT T	351				
	(2) INFORMATION FOR SEQ ID NO: 1816:					
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear					
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1816:					
	ATATCGTATC CCATGCGGGA AGGGCTTTAT TTATACTGTG CACGATGAAT GCGCACAACG	60				
25	GG	62				
	(2) INFORMATION FOR SEQ ID NO: 1817:					
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear					
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1817:					
	AAAGGGGGA AATTTTTTT TTTTGGGTTT GGGGGAAAA TTTTTTTT	60				
40	TTTAAATTAA	70				
	(2) INFORMATION FOR SEQ ID NO: 1818:					
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear					
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1818:	ſ				
	CAAGTTCGGA ATGCGAACGC GTCTTAATCT ATATACAAGT GATGCACTCC A	51				
55	(2) INFORMATION FOR SEQ ID NO: 1819:					

5	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1819:	
10	TCGCCATACT ATCGACAGCT GCTAAAATTG CGCTCTTCTT GTGTCGCAAT CG	52
	(2) INFORMATION FOR SEQ ID NO: 1820:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1820:	
	CAAATTGGGG AAATTACTAG AAATGAAGAT ATTTATAAAG ATGACTGGAC GTCAACTT	58
25	(2) INFORMATION FOR SEQ ID NO: 1821:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1821:	
33	ACTGCTTCAG CACCTGTATT CATTGGGGAA AGCTTTATCG TTGACCGGCC AGTTTACA	58
	(2) INFORMATION FOR SEQ ID NO: 1822:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(5) 33332333	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1822:	
	ACCTGTTGCT CGTGTCATAA ATAGGTGACT ATAAATCTCT GTTCAATATA CTTTTCGTTT	60
50		
	TTCCAATCTT AAAGGTCGAT GTTCGTGAGT AATCTTATCT CTGGTCCAAT TTTAATGTCA	120
,	TGATATGTTC ATAGTATCAC CCCTTTGTTG TGTAATAATA ATCAGGTGGG TGGTTAGAAC	180
EE	GGTGTGAATA	190

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1823:	
	AGCnTTAGCn TATGGTTTAG ACACAACTGn TAAAGATGCn AAGTTCTTGT	50
	(2) INFORMATION FOR SEQ ID NO: 1824:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1824:	
25	ARABATTGGA ARABAGGGGC CCARAGGTTA ACCCARATTG GARANARACC CARATTTTTT	60
	GGAAATTAAC CCAAAAATTG GCCCCCAATT GGAACCCAAA AT	102
	(2) INFORMATION FOR SEQ ID NO: 1825:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(0)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1825:	
40	ACGTACCAAT GTCATAATCA GTCATTTTAC CACTCTTAAT AATCTGCTTC CGGGCAA	57
	(2) INFORMATION FOR SEQ ID NO: 1826:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1826:	
	ACCATCTTGT ACAAAGTGGA TGTCATATGC ACCATCTTGT GTTTTGAGCT GCATTTAATT	60
	G	61

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1827:	
	ACCOTTTCGC CAAGCCGACC TAATTTCTCA GCAATATTTC TTTCTACGCC ACCAAT	56
	(2) INFORMATION FOR SEQ ID NO: 1828:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1828:	
25	ACTTATAGGG CGCACTTATT TTTCGCTTCC ATAGCGAAAC TAGTGTCACT TATACGTATG	60
	TG ·	62
	(2) INFORMATION FOR SEQ ID NO: 1829:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1829:	
40	GCTACACAC ATTTACCTTT CTTGTCACGT TTTGCGACCA TCATTGTGAT GATA	54
	(2) INFORMATION FOR SEQ ID NO: 1830:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1830:	
	GTAATGACCA TCGCTGATTT ATGACATTGT TAGATCTCAT GTGCCATTTA GTCTGCTGAA	60
55	TCTTGGG	67

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1831:	
	ATAACTCTTC GnCAAACTCC TCAACAAACT TCTTGTGTTC CATCTTCTGG	50
	(2) INFORMATION FOR SEQ ID NO: 1832:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Torologi: Tillear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1832:	
25	AAACGTMAGA ATATTTAATG GAGCCAAGAA TGGTTTACAG ACGGAGAAAT GGGATATGTT	60
	GAAGCGAGGC GTACGCGGAA AGCGTACTAG GCTAGAACAC T	101
	(2) INFORMATION FOR SEQ ID NO: 1833:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1833:	
40	TCGTCATCAT GTCTGTGTTA CCAACGTTTG ACGATTTANT TCATGCNGAA	50
	(2) INFORMATION FOR SEQ ID NO: 1834:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1834:	
	ATAAGTTAAT TGATTTATTG ATAAAGAGAA GCCAGATTTA AATATTATTA AACGT	55
	(2) INFORMATION FOR SEO ID NO: 1835:	

5	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1835:	
10	AAACAAGAAC CCCCATATGG TTAAGCTGCG CGTTTCAACA TACGGGGGGT TTTCATAT	58
	(2) INFORMATION FOR SEQ ID NO: 1836:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1836:	
	TACGTTTTAT AAAAACAAGA ACTAAAGTAT GCAGTGTGAA TTGTTCACTT TChTGGCGTT	60
25	GGAATTGATT AAAACGAGAT ATGGTGTTGT GGAAGTTGTT TGTGTTTGCA TATTTTAAAC	120
	CGATT	125
	(2) INFORMATION FOR SEQ ID NO: 1837:	
<i>30 35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1837:	
40	AATCTACAAT CCTGAATCAC TCGTTAAGAT TAAAAGTATC GACAATGAGT ATCTGAACAT	60
	GAGCTCATCT GCCGTTTTTA ATGCMAAAAA CCGGCGGCGG GATATTTTTG ACCACGGC	118
	(2) INFORMATION FOR SEQ ID NO: 1838:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1838:	
55	ATTTGGGGTT TTGGGACCCT TACCCAAAAA TTGGGGTTTG GTTATTAAAA AAAAGCCATT	60

	GTCCCAGTTT TTGGGATTGC C	141
	(2) INFORMATION FOR SEQ ID NO: 1839:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1839:	
15	TCTGGGGACT AAGTATGTCT CAGGCTTTAT GCTGTTATGT TTGAAAATGA AAGG	54
	(2) INFORMATION FOR SEQ ID NO: 1840:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
05		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1840:	
	ATTAAAAAAC CTTTTTAAAC CGGGAACCCA AGGAAAAATT CCGGGTTTTA ATTAAAACCT	60
30	TTTGTTAATT GGTTCCAAAC CAACCTTTTG GGTTAATTTT AACCAGGAAT TTTGGAAAAC	120
	ngttttattt gga	133
	(2) INFORMATION FOR SEQ ID NO: 1841:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1841:	
45	AAAGTATGGA TTGATCGTGG AGAAGTTCTT CCTACTAAGA ACACTAGTCG	50
45	(2) INFORMATION FOR SEQ ID NO: 1842:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCGTTTTCCT GGGATATGTT TGATGAATGG ATGTTGTAAC ATGTTAATAA ATCGTTGGTA	60
_	(2) INFORMATION FOR SEQ ID NO: 1843:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,,,	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1843:	
15	CTGAGATGAA TATTGTGTTT CGCCATACAT ACTGGGTAAT ATCCCAACCA TTGCTGTAAA	60
	(2) INFORMATION FOR SEQ ID NO: 1844:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 125 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1844:	
	CATTACCTGT AAAAGGAAGC TAAAGACGAT GAGTATTTAT AGAAACCAAT TGCCGACCAT	60
30	TTGCAGCCAT TAGGAGGGTA GGAGGGCAAT CGCGnCCAAA GGTTATTAAC CGTCAATTAC	120
÷	CTTGA	125
	(2) INFORMATION FOR SEQ ID NO: 1845:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1845:	
45	ATCCACCTGG GTTTGTTCTT AATTTAACCT GNTAATTAAT TGGGTTGGGT CCGGCAAAAG	60
	TCCGGACCTG CAAATCGGAT TTTATCGTTA AATCTTGAAT TCTATTGCCC ATATTAAATC	120
	GCAAAT	126
<i>60</i>	(2) INFORMATION FOR SEQ ID NO: 1846:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>	(C) STRANDEDNESS: doubte	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1846:	
5	TTTTGGGAAT AAACCAATTA ATCATGGGCA AAAAATAAGC AATCCAAGTA CTTACTA	57
	(2) INFORMATION FOR SEQ ID NO: 1847:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1847:	
	TGATAAATAT TTCATCTAAA GAGAGGGAGT CATTATGACA CTACTTACTG	50
20	(2) INFORMATION FOR SEQ ID NO: 1848:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1848:	
30	ATCTAGGCAA TGAATGGACG GACTTAATAT TGATGTGCAA CAAGAAGAGG AGAAGCGAAT	60
	CAATA	65
	(2) INFORMATION FOR SEQ ID NO: 1849:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1849:	
45	CGTGTGAAGT CATTACTTTT AATCCCATGA TGATGGTGAT GGATGAGACG ATATCTCTCT	60
	GTCTTTAACA GTTAAGTCCA ATTCTTCCAA CGAAACTTTT CCATAGGTTG TTTTATAAGT	120
	TGGAATACTT GCACAAATCA TACCTAATTG CTTATCAATT TTCTCAAGAC TGTCATCAGT	180
50	TATAAGATCA ATTITATTAA TAATAATCAT GTCACTTAGT TTCAACTGAT CTTCCATCAG	240
	GCGA	244

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1850:	
	TTTAAAGGTT CCCGGAAAGG TTTGAAACCA AACCTTTGCC CCGGCCCCCC GGGAAAAAAA	6
	AAAnTTGGTT TAACCCCCGG GGGGGGGGC CCTTAAAAAA ACCCAA	100
15	(2) INFORMATION FOR SEQ ID NO: 1851:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
4-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1851:	
25	TTTTTTAAGG CCCTTGGGGG GCCAATTTTC CCCCCCCCC AACCTTCCAA AGGTTGGGGG	60
	GCCTTTTTT TTAAATTGGG GGGA	84
30	(2) INFORMATION FOR SEQ ID NO: 1852:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1852:	
40	TCATGATTAA AATTCAACAA TTACAACATC ACTTTGGATC ACATAAGAGT AA	52
	(2) INFORMATION FOR SEQ ID NO: 1853:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1853:	
	ATAAAACATT TCAAGATGCG CTTGTAATTG TATGTGATAC TGCCAATGCT CCACGA	56
<i>5</i> 5		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1854:	
	AAAAGATCAT GCGCATAATG ACATGGTGAT GATATGAGTA TGATGGTGGG TACA	54
	(2) INFORMATION FOR SEQ ID NO: 1855:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1855:	
	ACAACAAATG GTAATGCATA AACATACAGC CAATAGCTAC AATTGCACGA CG	52
25	(2) INFORMATION FOR SEQ ID NO: 1856:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>3</i> 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1856:	
	ACGGCTGCAC TCATCATGGT CTGTGGCGTG ATTGTTAATG TTTTAGTTGC CCGCTTC	57
	(2) INFORMATION FOR SEQ ID NO: 1857:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1857:	
	GCAGATAACT TCCTTGATCC TAACAAAGCA AGTTCTCTAT TATCTTCAGG GTTTTCACCA	60
50	GACTTCGCTA CAGTTATTAC TATGGATAGA AAAGCATCCA AACAACAAAC AAATATAGAT	120
	GTAATANACG AACGAGTTCG TGATGACTAC CAATTGCACT GGACTTCAAC AAATTGGAAA	180

	(2) INFORMATION FOR SEQ ID NO: 1858:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1858:	
	CGCTGCACTT CCTGAACGCA GTGAGACCAG AACGTGGTGT CACTTTCGGT CTATTCCGGT	60
15	TAAGTGTTGG TCTCGGA	77
	(2) INFORMATION FOR SEQ ID NO: 1859:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1859:	
	TTTGGCGTTC GTGATTTTCT CTAGACGTAG TAACTTTCCC ACTCTTTGCG TCC	53
30 ⁻	(2) INFORMATION FOR SEQ ID NO: 1860:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1860:	
40	TTTCTCACTC GCGCATTTCA GTTTGTTTTG ATTTACCCGT CTCTTCTATT TGTCTTAAT	59
	(2) INFORMATION FOR SEQ ID NO: 1861:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
60	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1861:	
	AATGAATGTA TGCACATTAA CATCATCAAT TAATCCTTTT AATAAATTGA GTTGTAATTT	60

	(2) INFORMATION FOR SEQ ID NO: 1862:	
6	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1862:	
	ATTAATACTG AGCAAATGTG CATAAGACAT CATGAATTAG CACCAATTTA CAGG	54
15	(2) INFORMATION FOR SEQ ID NO: 1863:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1863:	
25	TTTAACCATC ATTCTATGTC AAAGTTTTGA AATGATGGTT ATTTTTTATT GCTTAAATTT	60
	ATTATTGCTA CTACTATACC AATGAAAGT	89
30	(2) INFORMATION FOR SEQ ID NO: 1864:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1864:	
40	AAAGCTGGTA CGCCTGCAGG TACCGGLCCG GAATTCCCGG GTCGACCCAC GCGTCCGGAA	60
	CCAAAATTGC ATCTGATGGT CTCAAGGGTC GTGTGTTTGA AGTGAGTCTT GCTGATTTGC	. 120
	AGAATGATGA AGTTGCATTT AGAAAATTCA AGCTGATTAC TGAAGATGTT CAGGGTAAAA	180
45	ACTGCCTGTA CTAACTTCCA TGGCATGGAT CTTACCCGTG ACAAAATGTG TTCCATGGTC	240
	AAAAAATGGC AGACAATGAT TGAAGCTCAC GTTGATGTCA AGACTACCGA TGGTTACTTG	300
50	CTTCGTCTGT TCTGTGTTGG TTTTACTGAA AAAACGGCAA CAATCCAGAT ACGGGADGAC	360
30	CTCTTnTGCT GCAGCACCAA CAGGTnCCGC CAAATCCGGA	400
	(2) INFORMATION FOR SEQ ID NO: 1865:	

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1865:	
10	AAATGGCGTA TCTTTATGTA TCAACTAAGT AATCACCAAT TTCTTTCGGA T	51
	(2) INFORMATION FOR SEQ ID NO: 1866:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1866:	
	GTGTTGCGGA TAATCCGTCG ACATTAGCGT CTGAAGGTAT CATGAGGCAA CTGCGCAA	58
25	(2) INFORMATION FOR SEQ ID NO: 1867: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1867:	
<i>3</i> 5	ACAGCAACTG ACCCAGTTTA CTACCGTCAC TCAAATCACA CAGGTGGTAT CAAATCAATC	60
	(2) INFORMATION FOR SEQ ID NO: 1868:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1868:	
	CAATCTCTTA CCATTTATCT CAGCTGGTGA AAACGGTCCA TTACACTTAG AATAAA	56
50	(2) INFORMATION FOR SEQ ID NO: 1869:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
EE	\ \\	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1869:	
5	GCTATAGACT AGAGGTACAG CAAATTCATG TGTACAGTGA TTAGAAGGCG ATGAGCAAAA	60
	GTAAT	65
	(2) INFORMATION FOR SEQ ID NO: 1870:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1870:	
20	GCTACTGGCG GGGGATAGTA ACACCCAATG TTACACGTAT ATACGTACGG CTTCTTGATA	60
	AAAAGATGAA GCChTTACAA GTAGAAGAGCG TAAGAACGTG ATCATCTAAA TGGTAAGGGT	120
•	AGACTATCCC ATGCCATTGT GGGCGGTTGC ATAGGTACCA CGGCACATAG CGG	173
25	(2) INFORMATION FOR SEQ ID NO: 1871:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1871:	
35	GCTGTGGGAT TGTCCTTTGG CATGGGGTTA GGGAGAGCGT TTCTAAGGGG.CGTTTGAAAG	. 60
	CCATTGATCC GTAAAAGGAC CATTGTTGGA AGCNGCCTTA AGAA	104
	(2) INFORMATION FOR SEQ ID NO: 1872:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1872:	
50	CCATTATCTC AAGAGGTTCT AGTAAGGGGA TGGCATTTGC TTCTTATGAA TTTGACCAGA	60
	ATAA	64

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1873:	
	GACAACCTAT TGTTTCCCTA CCATACTGTT GTCCGGTTTG ACAAAACGGC GTTCCACAAT	60
	CCATACATCG TGCACCTTGG ATAGAGGCAT CTTCTTTAGT AAATCGTTGT TGATATGCTT	120
15	TATGATGCTT CAAACGGTCT ACCAGTGATA ATTCACCTAA GTACTGTTTG TCATACTTCA	180
	TARATCCTTT ARATTCACCC ATCGTATCTC CCCCTTTCCT TARTACACAA CGGCTGGTTT	240
	ATGTTTAGCA TCGATTGTTT TGACTGTnCA TCGTAAAATG CAGCTAACAT CGCTTCATCT	300
20	TCCATTGTCA TGTGAAGATT TTGTGGCAAA nGGAATTTTT TGCATCAATG AATnGGTGAA	360
	CCTTTGGGGG TGACCTT	377
25	(2) INFORMATION FOR SEQ ID NO: 1874:	
żο	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1874: ATTATCTGAA TACGCAGCAG TTGCAGCACT TGATGGATCA GCAGTATTTA AAAGAGGTTA ACACATTACC CAATAGTG	60 78
40	(2) INFORMATION FOR SEQ ID NO: 1875: (i) SEQUENCE CHARACTERISTICS:	
45	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1875:	
50	CTAAAAGAAG TTAAAGAGTG TGATGGTAGA ATTATATTAT TTATTGATGA AATGCCATAT	60
	GCTTGTAGGT GSTGGTAAAA CAGATGGTGC CATGGATGCA GGCAACATGC TAAAACCAAT	120
<i>5</i> 5	GTTAGCACGA GGAGAGTTAC ATTGTATTGG TGCAACAACT TTAAATGAAT ATCGAGAATA	180

	TGTTGAAGAT ACAATT	256
_	(2) INFORMATION FOR SEQ ID NO: 1876:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 286 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1876:	
15	AGCGCGAAAT TGAGCAAGCG GAACATGCGA CTGATGAAGA AAAACAAGTT GCTTTAAATC	60
	AATTAGCGAA TAATGAAAAA CGTGCATTAC AAAACATCGA TCAAGCAATA GCANATAATG	120
	ATGTHAACGT GTTGAAACAA ATGGCATTGC TACACTAAAA GGTGTACAAC CTCATATTGT	180
20	AATTAAGCCT GAAGCACAAC AAGCAATaAA AGCAAGTGCA GAAAATCAAG TAGAATCAAT	240
	AAAAGATACA CCACATGCAA CAGTTGATGA ATTAGATGAA GCGAAT	286
25	(2) INFORMATION FOR SEQ ID NO: 1877:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1877:	
	ACTICCAAAC AIGATAAAGA CAGACTACTI CACAGGITTA AGGGAAGCAA CCACATTAGC	60
	GGGATTCACC CTAT	74
40	(2) INFORMATION FOR SEQ ID NO: 1878:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1878:	
50	TTTCATTAAG TTCAAAAAAT CTCAATAACT TTAAGGATTG GTCCGCATAT TA	52
		54
	(2) INFORMATION FOR SEQ ID NO: 1879:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1879:	
	ATACCCCTGA GATTAATTAC TTGTCCTTTT TTTAGAACAA CATCTCCTGG CTTTGTTTCG	60
10	(2) INFORMATION FOR SEQ ID NO: 1880:	
10	(i) SEQUENCE CHARACTERISTICS:	•
15	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1880:	
20	AATATCATTA ATAATATCAT TGATGCAAGT CCTATTGTGC ACAACTGGGG TGATTGCCTT	60
	(2) INFORMATION FOR SEQ ID NO: 1881:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1881:	
w .	ACAATGGCAC ATGGACTTAT GCCTGGGGTG TCCTGTTCGT CGCAGCATCA AAATGA	56
35	(2) INFORMATION FOR SEQ ID NO: 1882:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 121 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1882:	
	TGCAAAGCAT TGGCACATGG CCAGTCAGTT TTACAACGTC GTGACTGGGA AAACCCGAGA	60
	nGCGACGTTG TAAAACGACG GCCAGTGCCA AGCTTGCATG CCTGCAGTCG ACTCTAGAGG	120
50	A.	121
	(2) INFORMATION FOR SEQ ID NO: 1883:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 56 base pairs	

	(D) TOPOLOGY: linear	
5	(xi) SEOUENCE DESCRIPTION: SEO ID NO: 1883:	
	ACATTTAATG TATAACCAGT TTCAACATTG CCGATTTAGT GGCAGCAGTT GCAGGA	56
10	(2) INFORMATION FOR SEQ ID NO: 1884:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1884:	
	TGCATCCATT TGATTGAATT TTATGTTTTG ACCAAAGCCG GTTGCAATGT AC	52
	(2) INFORMATION FOR SEQ ID NO: 1885:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1885:	-
	TGAAAAGTGG TGGAATGGTG TTAAAAGTTG GTGGGTAATT TTAGAGAAGA G	51
35	(2) INFORMATION FOR SEQ ID NO: 1886:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1886:	
,	TACACGAACC ATACTCACCA GGTTTTCGTG TCATGAGGCG ATATTTTTTG TCATTTTATA	60
	TACATTTATC CAAATTCATC TTTTAAATGT TGAGT	95
50	(2) INFORMATION FOR SEQ ID NO: 1887:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 1667:	
	GCTACCAAAG GCGTTTTACC TATTGCTAGT CACTGCAAGT GGCTTAGCTA TGCAGATCAA	60
5	CTGGT	65
	(2) INFORMATION FOR SEQ ID NO: 1888:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1888:	
	GTGGGACCAA CTGGCCGGTG ACGGTGGTAA AGGTGCTTCA GTCGTATTGA AGTGGGATGA	60
20	(2) INFORMATION FOR SEQ ID NO: 1889:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1889:	
30		57
	TGTTGGAGAA ACAGTTAACG AGGTTTAATG TTAAAAAAGC AACGTATCAT GGGTATA	57
•	(2) INFORMATION FOR SEQ ID NO: 1890:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1890:	
45	TGGGATCTGC TTGCAAATAC ACAAAACTTT CTGGATTTTA TTACAATTGC AATATAATCA	60
	AACA	64
	(2) INFORMATION FOR SEQ ID NO: 1891:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1891:	
	GGCATCCACT CAGATAAAAT AAAGATGTCA AAAAGGCAAA GATGGTGCTA AAAAAACAA	59
5	(2) INFORMATION FOR SEQ ID NO: 1892:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1892:	
	GGTATCTCAA CGATCCTTTA GGTTAATTCG GAAATTTCTA CACGTGAGTT AGCA	54
	(2) INFORMATION FOR SEQ ID NO: 1893:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1893:	
30	TTGTCTTGGC AATGGCAGAG CAACAGAAGT TTAAAGTGCT TGCTGATCAT AT	52
	(2) INFORMATION FOR SEQ ID NO: 1894:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1894:	
	TAAACCTATA CCCTGTAAAA AGAAAAATCG TGGATCGAAA GAACATGTAT GTGGCATTTA	60
45	TGATTGATGC TCAAGCAGA	79
	(2) INFORMATION FOR SEQ ID NO: 1895:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1895:	
	TTATAAAGGA GAGAAATCCT TAATTATGAA TAAAGCATCA TTTGATAAAA AAGTTAAAAA	60
5	GCAATTATGG TTTTTGAACA AGAAGGAGAA ACAAGCATTA GATCAACGAT TGTCTTCTAT	120
	ATCTGATGAT GACAGCGTTA ACTTAAATAA GCCTGTTACC TTTGCTAATG CTTACTTAAG	180
	ACAAAATGTA TTTCGAAATA AAGAAACAAA AAGTTATAGT ATGTTTGTTA CATTAGTAGT	240
10	GATGATGTTT GCTTATGTTG CTTTATTAGG TTTGTnTTTA TTTGGGCTAA TTACAAGTCT	300
	ATCTGGCGTA CAATTTTCG TTAGTCCTAA GGTAGATTTA TCTACNACTG TTGTTATTTT	360
15	AACAATmATT GGAGCGA	377
	(2) INFORMATION FOR SEQ ID NO: 1896:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1896:	
	TTAGGATCCG TCTTTGCCGC AGCGTGGGTG TTCCGCGAGC GCTTCTTAGA GGTTTTGC	58
	(2) INFORMATION FOR SEQ ID NO: 1897:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 445 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1897:	
40	ATCGCTCAAA CCGAAATTGA AAATGCATCT ATTACTTCAT TAAGCCGTTT ACCAGACGTT	60
	ATATTAGCAT TGAAAAGTGG AAAGGTTGAA GGTGCTGTAG TTGAAAAACC TGTAGCAGAA	120
40	GCATATTTAA AACAAAATCC TAAATTAGGA ATTTCCAATG TGAAATTTAA TGAAGAAGAA	180
45	AAAGATACAG TGATAGCAGT GCCAAAAGAT TCACCAAAAT TATTGTCACA AATTAATAAA	240
	ACGATTAAGG AGGTTAAAGA TAAAGGATTA ATCGATAAAT ATATGACTAA TGCTGCAAAT	300
50	GCGATGAATG ATGACAGTGG TTTTATTTCT AAGTATGGTA GTTTTTTCTT GAAAGGAATT	360
	AAGATTACAA TATTAATTTC ACTTATCGGT GTTGCATTAG GTTCTATTTT AGGTGCATTC	420
	GTTGCGTTAA TGAAATTAAG TAAAA	445

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1898:	
	ACCTITICAA TGITGCTTTG ATATAAATTC ACAAAGTTGA CITTITAATT CTTCAATAGA	60
	TTCTCTACTG CGATAGCTGA ATTGCCATCT TTTCTACTAC T	101
15	(2) INFORMATION FOR SEQ ID NO: 1899:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(0, 5050-5550 - 5500-5	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1899:	
23	TGCCCTGGAT GCCTTTAACT TGATTCATGA CCTGTGGTTT TATTTCAATT TAGATGAGCT	60
	ACCTTCAAGA CCTTC	75
30	(2) INFORMATION FOR SEQ ID NO: 1900:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1900:	
40	AGCAATACGG AACTGATGAA CGGAATTGTA ATACGAGAAT ATGAAGCATC AACG	54
	(2) INFORMATION FOR SEQ ID NO: 1901:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1901:	
	AGTACCTGAG TATCGCAGAC CGGCTTCAGG TCGTAGAATT TCTATACGTG GAGCTAGAAG	60
55		

5	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1902: GTCTAACTAC AGCATGCCGG CTTATTGTTG CACTTTCTCA ATATTTCCAT A	51
	(2) INFORMATION FOR SEQ ID NO: 1903:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1903:	
	GGATTMAAAC GTGCATTAAC GCGTGTmTTA AATAGTTATG GTTTAAGTAG	50
25	(2) INFORMATION FOR SEQ ID NO: 1904:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1904:	
	ATCGTATTTA TTTCAGCGAG TAGCGGTAGC CTTCAATACA CAAAGATTTT ACC	53
40	(2) INFORMATION FOR SEQ ID NO: 1905: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1905:	
<i>60</i>	ATAAGACGCT AGATCTGGTC AATTTATTTC CGATTTTTTC AACACTATTC	50
	(2) INFORMATION FOR SEQ ID NO: 1906:	
e e	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1906:	
	TTCATCTGAA TCGTCGGCTT TCGCGATTAC TTCTTCGTCA GGGTTGCTAT C	51
10	(2) INFORMATION FOR SBQ ID NO: 1907:	
. 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1907:	
	CAATTGCTAA TAATCCTTTT AAGTCATTAA TGATTTGATC TTCCGTAATG TTGAA	55
	(2) INFORMATION FOR SEQ ID NO: 1908:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1908:	
	TTGCCAAACA GACATGACTT AAATTTCAAT ATCTTCTTTG ACTGCATCGA TAT	53
35	(2) INFORMATION FOR SEQ ID NO: 1909:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toronogi: Timear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1909:	
	TGAATTTCTA TACAATTATG GGGAAGGGTA TTGGTGAATT GGAATGGGCT CCTAAGTTTA	60
	CAAGCCCCCA TTCGATGGCC GTTAAAGTTT TTAA	94
50	(2) INFORMATION FOR SEQ ID NO: 1910:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1910:	
5	AACATGATCG TGGGGGGATG TTATGTTTGT TCATATATTT AGGAAGTCGT TTGTAGTTAT	60
	TGTTTG	66
	(2) INFORMATION FOR SEQ ID NO: 1911:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1911:	
20	ATCTTCGCTC CACTTACTGC AATAAGGATT TGCGGCAATC CTAAACCGTT TTTCA	55
20	(2) INFORMATION FOR SEQ ID NO: 1912:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1912:	
	AACAATCGTA ACGATACAAC GCAATCTTCG AAAAATAATG CAAGTGCAGA TTTCCGAAA	59
35	(2) INFORMATION FOR SEQ ID NO: 1913: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1913:	
45	ACACCACACA CACACACA ACACCCCACA CAACACACAC AAACACACAA A	51
	(2) INFORMATION FOR SEQ ID NO: 1914:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1914:	
	TGTTACGACT TGGTCGACCT GGCAAGCGCT TCGCGCACGT TCTGCAGCnT CTCACTTATT	60
5	GGTATCGCGA TGCGACGTTA AGAAATTTCG GAGTTCTGGT CACCTTATGT T	111
	(2) INFORMATION FOR SEQ ID NO: 1915:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1915:	
	TGGTCCGCTC TCAATCGCAT CTTCAGGTTT TACTTGGCAA AAGAGCGCGG TGCTCA	56
20	(2) INFORMATION FOR SEQ ID NO: 1916:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1916:	
	GCCGACAGTA AAATAAAGGT ACTTGATATA ACATATAACG GAAAGCAACA GTTACTGTCA	60
	CA	62
35	(2) INFORMATION FOR SEQ ID NO: 1917:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1917:	
45	ATGATATITA TITGATIGAA GAGATGTIGC TTAAACAAGA AGACGTACAA TIGATANAAC	- 60
•	GTAAAGATTA TATTCAGCAC CCTAAAGAAA ATGGTTACCG CAG	103
50	(2) INFORMATION FOR SEQ ID NO: 1918:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1918:	
5	CAGTGTAGCG TGTGTCATGC CGTTTTACCA CAATTGAAGA CTGAGCTCTA TCCCTGTGCC	60
	(2) INFORMATION FOR SEQ ID NO: 1919:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1919:	
	TCAAATTAAC TTCCAACAAA AACAAATGCA AGGTGAAGAA ATTGCTGAAG AAGATTTACA	60
	AAAAGCGCAA GAACAAGCGC AAGCAATTGA AAAAGATGAA AACATCTCTn CATTAAT	117
20	(2) INFORMATION FOR SEQ ID NO: 1920:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1920:	
	TGCCTAATGA AACATTTAAA AATATTTTTA AATATATCTA TCAACACATC GTTCTATTAA	60
	TTGGGATTGT TAGTTTTCTC AAAGGATTTT TAGGATTTTT CATGGAAAAA AATGGAAGTA	120
35	ATTTATÄTTT TGTTTCATTC CCGTTTTCAG TAGTCGTTGG ATTCTTTATT GTCTTTTAT	180
	TTATATGGTT TAGTTTTAAA ACAATACAAC TGCAGTGTTT TAACAATTCA AATTGGATAT	240
	GGATATTCAC CTATTTAGCA ATCATTCTAC TAATTGTAGG ATTTTTCTAT GTATTCTTTA	300
40	TTCCACAATC ATTACTTGCC TTTGGACCAT ATATTCAGGT AAGCAATTGG GTATTTATTA	360
	TATTTCATT TATAGTTATG CCTATHGGAT TACGCATTGA	400
45	(2) INFORMATION FOR SEQ ID NO: 1921:	
4 5 6 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCACAGTCAT CATTTDATTT TCGATTTTCA ATAATTGTAT TTTTAATTTA TCTTGATATT	60
	CATTAAGATT TATACAAGCT ATCTTTAACA TTGCCTTATC TTTGATATAT TTCTTGCATT	120
5	cc	122
	(2) INFORMATION FOR SEQ ID NO: 1922:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1922:	
	AGAAGATACC ATACACATTT AATTAGTTAC AGCATAAATC AATTTATACC CTTAATTATT	60
20	ACATTGTTTA TATTTTAAAT TCGGGGGAGT AATTTTAAGT AATATCTTGT TGCTGCTAAT	120
	TCTATTGTTA ATAAATTGAT ATTAGATGTA GAAATTGAGT GTGAAAGTTA ATAATAGATG	180
	ATTTAGCTAG TAACATAATT AATTCATATA TAGTCAAAAA GTTCTGTTAG ATACTGTTCT	240
25	TGATGAATAT TCTTTGATGT TAGGTGTTAG CTATTCTAGA TGAGTTTCTT AGATGTGGAT	300
	GCCTGTCTTG ATGAAGTTAT CTATGATGTT AATATAATAC TTGATGTTGA TTCTTAGATG	360
	TTAGTGCGAT TTCAAGATGC TGATTCTTTG TTGTTGCACT ATCTTGGTGA	410
30	(2) INFORMATION FOR SEQ ID NO: 1923:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
4.0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1923:	
40	TTTCTATGGT TTATCAGGTG ATTTTACGGA AAACAGTGAA GATTATGGCG TATACCGCTT	60
	TARACGTGGA TITARTGTAC ARATCGRAGA ATTRATAGGG GATTTCTATA ARCCARTTCA	120
45	TAAAGTGAAA TATTGGTTGT TCACAACATT GGATAAATTA CGTAAAAAAT TAAAGAAATA	180
	GATGTAAATG ATGTTAGGGC TTATAGTNAT TGATACTATA GGCTCTTTTT TATATGTTTT	240
	TTAATAAAGC CTCGAATAAT GATATATTAA ATGACAAGTT TAACAAGTGA TTGCAATAAA	300
50	TATAAATnTG AATTGCACAA CCGATTTGNA AATGATTGAG TTGAGGAA	348
	(2) INFORMATION FOR SEQ ID NO: 1924:	,

5	 (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1924:	
10	AGGGCAGATT TAAGCTAACT TGGAATGTTT TCGAGTTTTT GAGTTAGTTC TCTATCCATT	60
	TTTTCAGTTA CATGAGTATA TATGCGAATG GTTGnTTGTT CATCTACATG TCCTACCCTT	120
	TTCATAATTG CTTTTAAAGA AACATTCATT TCTACTAATA AAGTTATGTG TGTATGTCTA	180
15	AATGTGTGCG TGGTAACTTT CTTATTCATA TTTAAAGCTT TTGTACGTTT TCTTAACGCA	240
	CACCGGCCAT TTC	253
	(2) INFORMATION FOR SEQ ID NO: 1925:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1925:	
	GGTATAGGTG CAAGTCCTAT CTTCCGCTCC ATGGTTTAAT GATAATGCGG GA	52
30	(2) INFORMATION FOR SEQ ID NO: 1926:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1926:	
	TGGTCACTGT TCCTGATGCT TACGTTAGAA TGTAAGATTC CCGATTTATC AGTTATATAC	60
	TGTTTGCTTC ACTTTGGAGA TCTG	84
45	(2) INFORMATION FOR SEQ ID NO: 1927:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CITTCTAAAT AATTCTAGTA TAGTTTTTAT TCAAATACGC TAGGCTCAGA GCTATT	56
	(2) INFORMATION FOR SEQ ID NO: 1928:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1928:	
15	GCAAATTGTC ATTAGACGGA GTATTATTTA GAATTTTCGG TGATATCCAC CGGCACAAGA	60
	TCGATGTTGG ACAATATCTA ATATACTGAT ACGCATTTAA ATAGAAGAAG GGAATTAGAG	120
	TTTGGTTnTG AATGCAAA	138
20	(2) INFORMATION FOR SEQ ID NO: 1929:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1929:	
	ACATCTTTAT ATGCTTCAAC ATCAAATACA CCACATATTG GTAAACAACA AA	52
	(2) INFORMATION FOR SEQ ID NO: 1930:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1930:	
	TTTAATGTTC ACAACACCGG AATAATAATA ACTAAAGCGC CGCTAATAAA T	51
45	(2) INFORMATION FOR SEQ ID NO: 1931:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ACGAAAAATA AATAATCATT TCACCTTTAT AGCCAGTATT TTTAATTAAT ATATTTTCAT	60
	CTATTAGCGC TTCTAAAAAT CTATTTGACT TTTGAACATA CTCTTTAGCT ATATTATTAA	120
5	CAACAGTATA GGATTCCTCA TAATTTAGTT GATTAAATTC TGAGTCGTTC ATTAATTCAA	180
	CTAATCCTTT TATTACTTTT TGTACAACAT TAATATTTTT ATCAAAATCA AATTTATCTT	240
	CCTTAGATAA ATTAATAnnn AAAGTCTTAA GAACATTTGT AAATAGCTCT GCAACACTTA	300
10	TAGTTTGGnC AAATTCCTTA AATTTATTTA CACAGTACTC ACACATTAGT TTTAAAAATA	360
	ATGGATTGTT GAATTCTGGA TTTAATATAG GTAACTTAGG	400
15	(2) INFORMATION FOR SEQ ID NO: 1932:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1932:	
25	ACTTGCGGAA NGACGCAACG TTTATGTACG TTGGAAGAAA AATTCAGGAC TTACGTTCAA	60
	AACTACCATA GCAATATGCA TTGAAAGATG ACAGTATGCG	100
	(2) INFORMATION FOR SEQ ID NO: 1933:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1933:	
40	CGCTCTGCTT TAAGCGTTGG GACTTTGTCA ACGGTAGTGG ATGGGAAGTG GTTCTGCTTT	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 1934:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1934:	

	(2) INFORMATION FOR SEQ ID NO: 1935:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1935:	
	ATGTATTACG GTTTAATTAA GCCACATACC AACAAGATTG CATTTATGGT ATCTCA	56
15	(2) INFORMATION FOR SEQ ID NO: 1936:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1936:	
	TCGCACCAGA AACAAGGGAT TGTTAAAATT GCGTAAATCC TTAAATTTAT TTGTAAATAT	60
	A	61
30	(2) INFORMATION FOR SEQ ID NO: 1937:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1937:	
	ATGAATAATC ATATTTCTAA TCAAAGTAAT AGCATTTATA TTGTGTTTAA A	51
	(2) INFORMATION FOR SEQ ID NO: 1938:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1938:	
55	TTGCTGAAGA TAGAGGCTTC ATGAAGGTGG AGAAGTTAGC TGATTTCTGG AACAGG	56

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1939: ATCTCAATGT ATTCCTCTAG TGTAAGTTCT TCATAAATAA CCGGTGATTC C	51
	•	31
15	(2) INFORMATION FOR SEQ ID NO: 1940: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1940:	
	CTCAGGTCGA CTCTAGAGGA TCCCCTGTTA AATAAAACTT CTTAAGCACA TACTTATTTC	60
25	ACTATGCCTT TTACGTTCCC CTTATACTTT TCTCACATCT TTCTCTTAGA CTACTCCCTT	120
	ATACGCCCCG CTCAATATCT TTAATCATTT CATCTACAGT TATTTTCGCA CTCGTTAAGA	180
30	CAATAGGAAC GCCTGGCACC TGGATGCGTA CTTGCACCTG CAAAATATAW ATCTTTATAA	240
	TCTCGCGATA CATTYTGTGG ACGATAATAA TTACTTTGCG CTAAAGTTGG GCATTAAACC	300
	GAATGCCGAA CCAAATTC	318
35	(2) INFORMATION FOR SEQ ID NO: 1941:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1941:	
	CCGGGAAAAT TTTTGGAATT AAGTGGAAAA AAAATCCCCT TAAAATTCCC CTGGCCA	57
	(2) INFORMATION FOR SEQ ID NO: 1942:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
5 5	(D) TOPOBOSI: Timeat	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1942:	
_	TGTTCTTCTT TTGAATCTGT TTTATTCGTT TGTTCCTCTT TTTTCTGTTC ATCTTTCATA	60
5	TTTCCACATC CCCCAATAAA AATGATTAAA AGTAATACAC TCATGTACAA AGCAATTTTT	120
	TTTATATACT CCATCATTTC ACATCTCTCT GTTTTAATTT TATAAACATT TGAATATTTC	180
10	ATACAACTTA TTAAAATAGT GATTATTCAA CTTTTATGTT ATCAAACAAA ACTAACTTAT	240
	TCAATTTAAT ACATGTAATT CATTTTAACT TTATTATTAA ATGTTCTAAC GTHATTTTTT	300
	ATATTAGTAA TTATATTTAT TTATCCTCGC TTGGATTAAA GTAGATACTA TCTGTGAAGT	360
15	Anatattttc tgccttgn	378
	(2) INFORMATION FOR SEQ ID NO: 1943:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1943:	
	AAGAAGAAGT CAAAATTCAG CTAAGTAAAA GCTCGAGTTA TAAAAAAGTC TAAATTGATT	. 60
30	CAACAGGAGT AGAAAAGGAA ATTAGTCTTG CATATTTTAG AAAATGAATA AAAACAGTTA	120
	CTATATGCAA CTCAAGAATT AAATATTATT TAAGCCACAT ACCTATTAGA GTACAAAATA	180
35	TACAAGTTGT ACTTATATCT AGGTATGTGA CTTTTGATTT TAAGCGTAAA GTAAAAGTTT	240
	TTATGTTTGT ATTAGTTCTA AATTATTTTG CACTTGGATG ACACGTATTT TTGAGTTTAA	300
	GTGGTGACTC AAGTTCAATA AAATAAATAT CAGATAGGAT AATTTGAAAA TAATATGAAA	360
40	GGGTTATCTC CAAAATnATC TCCATATTAT AAGG	394
	(2) INFORMATION FOR SEQ ID NO: 1944:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1944:	
	TATTCGTGAT GACGATTGTC GGTGACATGA AGTTCTATTT GCTGGCACTG AT	52
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 1945:	

5	(A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1945:	
10	CGTTTAAAAA ATGATATCAA TCTTTATTGT GGATTGCAAC ATCCGTGTGC TCCATAAAAC	60
	GTGTGGCGAG ACTTGGGAAA GG	82
	(2) INFORMATION FOR SEQ ID NO: 1946:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1946:	
25	GTATTATTGA TGAAGAAACA GCTCTCCAGT TGTAGATGCA TGCTACGTTC ACGTTACCAC	60
	TGTATCAATT	70
	(2) INFORMATION FOR SEQ ID NO: 1947:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1947:	
40	TATCACCAGC ACCAAGGNTA ATGACATGCT GATCTTTTGC AGTTATGGTn	50
	(2) INFORMATION FOR SEQ ID NO: 1948:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(5) 10102001. 111021	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1948:	
	ATTGTATGAA TCTTTGGGGA ATGAACTTTN AACGAACGGA CATCTTGCAA TGACGCATCA	60
55	AAATGGTTTT AACACATGTA ATCGGCTCTC GGTACTATTC GTGTGATGTA CACATGG	117

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1949:	
	TTTGATGATT TCGGGATGGA TTGGTATTGT GGTGAATGAA TTTTTTAGCT CATCATCAAA	60
	TTAG	64
15	(2) INFORMATION FOR SEQ ID NO: 1950:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1950:	
-	CTCTAGTGGC CATTCATATT TGTCGCTGAA TGATGTTGGT ACATCCATTG CTGCTGT	57
	(2) INFORMATION FOR SEQ ID NO: 1951:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1951:	
	CTGTCCTTCT GAAACTTGGG TATTTAATTA GGAATAGTTA AAAAAATCAT TCACAGAAAC	60
40	ATTTAATA	68
	(2) INFORMATION FOR SEQ ID NO: 1952:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1952:	
	TTAAATTAAC CTTAAGGTTG GNATTTTTAA CCCCCAAATT TTTGGGGTGG TTAAAATTCC	60
<i>5</i> 5		

	(2) INFORMATION FOR SEQ ID NO: 1953:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1953:	
	GACATTTACA CCTGCTTCAA TCTGGTCCAG TGCAGCATCT AATTCTTCGA	50
15	(2) INFORMATION FOR SEQ ID NO: 1954:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1954:	
23	ATTTGGCCAA CTGTTCAGCA CGGTATTGGT TCAATGCAAC ACTTTATCAT TGCTTCAGGG	60
	CTATATCGGT GGTATGGGnT GTATCACTTC TTAGAACGTG GTATTAA	107
30	(2) INFORMATION FOR SEQ ID NO: 1955:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1955:	
40	GAAGTGAATA TGAAGCTGCT AAAGACTCCG GAATGCTACC TCAGACAACT GATG	54
	(2) INFORMATION FOR SEQ ID NO: 1956:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1956:	
	ATGATTATTT TAGTTCCATT TGTTGAGTCG ACTGCTAAAG TTCCATTTAA ATGTTGTACA	60
e e		

	ATAAGCAGTA ATTTATGATT GTTTACAGTT TTTAATTTAC CATGAACTTT TGAAGCATTT	180
	GCATGTTTAA TAACATTATT TATCGCTTCA CGCGTAATCA TAACTAACAT AGATTGTTTA	240
5	GTAGGACTTA ATACTTGCGC TAATTCTTTA TTTTCAAATG TAAAATCAAT ATCAGCATCn	300
	ntharactt tacgtatact atcaatctct tcaataaatg atggtaattt tacatcatca	360
40	ATAAT	365
10	(2) INFORMATION FOR SEQ ID NO: 1957:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1957:	
	AAATAATGTC ACAAAAGTTA AAGATACTAA TATTTTTCCA TATACTGGTG TAGTTGCTTT	60
	TAAAAGTGCA ACTGGATTTG TAGTTGGAAA GAATACTATT TTAACAAATA AACATGTGTC	120
25	GAAAAATTAC AAAGTGGGCG ATCGTATTAC TGCACATCCA AATAGTGATA AAGGTAATGG	180
	TGGTATTTAT TCGATTAAAA AGATTATTAA TTATCCAGGT AAAGAAGATG TATCAGTCAT	240
30	TCAAGTTGAA GAGCGTGCAA TAGAACGTGG ACCAAAAGGC TTTAATTTTA ATGATAATGT	300
	AACGCCATTC AAATATGCGG CAGGGGCTAA AGCTGGTGAG CGAATT	346
	(2) INFORMATION FOR SEQ ID NO: 1958:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1958:	
	TTTTCCAGTT AATTTTTCCA GTTCACTAAA TACTTTATTG ACTGTACCAG ACCCAATAAT	60
45	AATTTGGTAT TGTCCCCCAG TAGAAAACGT CCCTTTAACT ACATCCATAT TGTTTAGCGC	120
	CTCTTCATTT ACTAAACTTT CATCATTTAA AACTAATCGT AGTCTCGTTG CACAATGCGC	180
50	CATTGCATCT AAATTCTCTT CTCCGCCTAT CGCGTTCAAA ATTTCTTCTG CGGATTGCTT	240
	ATAATTCATA TATTTAGCCT CCTAATTAGA ACCGGTTCCA TTTATTCCAC TTTATTGTAA	300
	CCGGTTCCAA AAATATTTGC AACACTCTAT TATCATTTTA TATAAACACC TACACCATTT	360
55		

	(2) INFORMATION FOR SEQ ID NO: 1959:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1959:	
	GATTGCATAT AATAGTAAAA ACATTACATC TTGAACAGTA CTCGTTTTGT	50
15	(2) INFORMATION FOR SEQ ID NO: 1960:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
4=	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1960:	
25	AATTTGAACC AGACACTGAT ACAAGTCACA CCCAGAAACT TTTAAGGACG TAAATGT	57
	(2) INFORMATION FOR SEQ ID NO: 1961:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1961:	
	AACGCTATAT TAGCGATATA CAATGATGCC ATTATCAATA nTACAnCTGn	50
40	(2) INFORMATION FOR SEQ ID NO: 1962:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1962:	
50	TACAACGTCA GTTGGCAGAC ACCAGAAGAA GGATTCATAA GTATATTCAG GAACTTGTTA	60
	(2) INFORMATION FOR SEQ ID NO: 1963:	- •
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5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1963:	
10	AATTTTTCCC CCTTTTTAAA TTTCCCAAAA AAAAnCCCCC AAnAAAAAAA	50
	(2) INFORMATION FOR SEQ ID NO: 1964:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1964:	
	CAACAAGTAG ATGCATCAGA GAGTAGTGTT CAAACGTTAA TAGATGTGGC ATG	53
25	(2) INFORMATION FOR SEQ ID NO: 1965:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1965:	
	AGCAAAGGCA TAACTGCTAA TGACCATGTA AATGAGACGA GTCGATCGTG GCCA	54
	(2) INFORMATION FOR SEQ ID NO: 1966:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	V=V = ======	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1966:	
	CTCAAATAAC TGGCTCAACT CAACCGGTCT ATAACACCAT AACACCGCAT GCCACTCTAG	60
50	CATACTCAAT CGCTCTGGTA CCAGCTCTCA AATAACTGGC TCACGCCAAC TGTCTATAAC	120
	ACTAACACGC ATGCACTCTA GCCTACTCAG AGCTCTGGTA CAGCACTCAA TAGCTGACTG	180
	TCACAGTCCA CACACACTCA ATACTGGCTG ACACAGTTCA CACACAGCTT ACTCGCTCTC	240

	(2) INFORMATION FOR SEQ ID NO: 1967:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1967:	
	CAGTITAAAC TCGATGTTGT GTACTACTGT GCCAGCTGGA ATGTTTTATA ATGGTGATG	59
15	(2) INFORMATION FOR SEQ ID NO: 1968:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1968:	
	GTTACATGGC ATCACGCCAA ACCTGTCTAT AACACCATAA CACGGCATTG CC	52
	(2) INFORMATION FOR SEQ ID NO: 1969:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1969:	
	ACAATTTAA TTATATAACT CCAGGGGCTA CAGTAATACG ATTTCTCCAG ACTCCAAA	58
40	(2) INFORMATION FOR SEQ ID NO: 1970:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1970:	
-	TGACGTATAA TGGATGAAAG TCTATTAAGT TTAAGAAGCT AATACTGTGA AATCTTTCT	59
55	(2) INFORMATION FOR SEQ ID NO: 1971:	

5	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1971:	
10	TATCATGTTA TCTTCAATCG TTCACCAACA GTCATTTGCT GCATCAGTAA CG	52
	(2) INFORMATION FOR SEQ ID NO: 1972:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1972:	
	TTGCTGGTGC CATAGACTAC ACTTGTTTGA TATCAGAAAT GGGATCTGTT CCATTACC	58
25	(2) INFORMATION FOR SEQ ID NO: 1973:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1973:	
	AGTTAAACCG AGTCCAACCC AAACCTCCAA TCCACCTAAT GGTTAAAATT CCAAACCATT	60
	ACCAGGGAGG GACCAAAAA CGGAATGGGG CCTATTGGTA GGGTACCTAT CCCATTTAAA	120
40	AATCCATCCA AAAGCCCAnA TTATCGGACC ATTTTCGCCA AAAATAATTT AAGCGGAAAT	180
	TGAATACCTT AAAATTCTCn GGGCCCACT	209
	(2) INFORMATION FOR SEQ ID NO: 1974:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1974:	
55	ATCTGAGTAT TTATAACATA AATCACTAAT ATCGTTATTA CATAGGGATA GGGTAAAAGT	60

(2) INFORMATION FOR SEQ ID NO: 1975:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	A AL ADAMS PROGRESSION OF TO VO. 1975.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1975:	60
	TTCCTGCATC CGAGTCTGAA TCGCTGTCGA ATCACGTCGA GTCGATCGCT ATCAGGTCGA	
15	GTCGCGTCGA ATCGNTCGCT ATCGAGTCGA TCGCGTCGAA TCGAATCACG TCGAGTCG	118
	(2) INFORMATION FOR SEQ ID NO: 1976:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1976:	
	TTGCAACNTT TGATCTAGAT ACTACCTTAG TTGGATTGTA CTACTTGATT CTACTTCACC	60
30	TTTAGTTGGT TTTGTAGCAG GCGTTTTGTC TTTACCTGAC TCACTAGATG CGTCATTTTC	120
	TTTTTCAACA CTTGGTAATT GTTTATTGTC ATCTTTTTGG CTGTCTTGTT TTTGTGATTC	180
	TTTTTCAACA GGTGATGGTG TTGGTTTGCT AGGCGTACTG GAGTAGCTTC CTTCTTAGCT	240
35	GAGTTATCIT GTTGTTCTTT TTTGTTAGAT TTATCGGTAT TGGCTTTTGT AAATGCTTCT	300
	NTATCAACGA TTCTGACATG GTATTGTCCA TCATAATCAA TCGTTTTTAC GTGAACTTTA	360
•	ACGATAGCAT CATATAGAGT TTACCTTCAA CATATGGGAA	400
40	(2) INFORMATION FOR SEQ ID NO: 1977:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1977:	
	TAGACAAAGA CAGTAACAGT AAAGTACGCT TCAGAACTGA TGGCTCACTG CGAGTATAAA	60
	AACTTGTAGT GTCC	74

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1978:	
	ACTCAAAAAC TCGGAAAACA TTCCAATTTA GCTTAAATCT GACCCTTTTT TTGACCCTTA	60
	TATTTTTAC AA	72
15	(2) INFORMATION FOR SEQ ID NO: 1979:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1979:	
25	ATGTCATTGG CTTTGAACTT TATCTTCAAG CACCCAATCG TTTTAACTTT TCAAAATTTG	60
	GCACCATAA	69
30	(2) INFORMATION FOR SEQ ID NO: 1980:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1980:	
40	CAGAGAGTTG TCGCTCATTA AACGCCACnT GATGAGTTTT CGCTTACGAA GTGCCACGCG	60
	GTATGGATAA TTTTCACCTG TTGCTGAGTC TTTGATAAGC CTCGACTGT	109
45	(2) INFORMATION FOR SEQ ID NO: 1981:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 1981:	

	(2) INFORMATION FOR SEQ ID NO: 1962:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1982:	
	GAATCTGTTC AAGTTAGAAT TATCCCGGCA TAATGATAAA GGCGAGTAAA TGG	53
15	(2) INFORMATION FOR SEQ ID NO: 1983:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1983:	
25	GNCTTTTGAA TAAAGAAAAA TTCATCAATA GAAAAACCGT CTTTATCGTC TATTTTTTTA	60
	ACTAGTAAGT TCGGCGTTCT TAGAGACTCA AATATTGATT TTACGTTTTT CTTTGTTACA	120
20	CCACTAACAC TAAATATTCT TCCATCTAAA TCTACTAATT CTGGTACCGC AAAGACATCT	180
30	AAACCATGTG TTTTTTCTTT GTATTTATTT TCATCTTTTC CCAATAAAAA CACTTGGAAC	240
	TTTTGATTTn GT	252
35	(2) INFORMATION FOR SEQ ID NO: 1984:	
00	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1984:	
	CGTGTTAATC AACTAATTCT TAGTTTTAAC TGTCGTAATA ATCAACTGAA CACTTTCAAT	60
	CTA	63
50	(2) INFORMATION FOR SEQ ID NO: 1985:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1985:	
_	TCCTAAAATG ACCGCTAATG CCTATGGATT GTTATCACCG ACCGCAGGGA CAGCACGACC	60
5	TAC	63
	(2) INFORMATION FOR SEQ ID NO: 1986:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1986:	
	GGCATATAAA AATTAGAGAA ATTATTTCAA ATGAACAGAT AGAGGCACAA GATGAATTAG	60
20	TTARACGATT ARACGATTAT GNTTTARATG TCACTCAAGC ARCTGTTTCT CG	112
	(2) INFORMATION FOR SEQ ID NO: 1987:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1987:	
	TTTATCAATT TGTAACGAAC ATGAATTACA TGTTTCAGGA AAATATATTT CATCCCATTT	60
35	TTAAAAAGTA TAAGATTTTA TGAAAAATTA AACCAATTNA GTATAA	106
	(2) INFORMATION FOR SEQ ID NO: 1988:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1988:	
	AATGGCGTAG TTACAGCATT TATGATTGTG TTAATCTTTT CTTCTGATAA ACATAATCTG	60
50	TTTGACCAAA AGTATTTAAG TGTTCAATTA ATTAGTTTTA TTATTTACGT CGTATGGCAA	120
	GTTTTATTGA TAATGTTTTA TTATCATTCA AAACCAAAAA ATAATTCATT TTCAAAATTT	180

	1991149919 GACATCAGAT TCACTTCCAT GAAAGTAAAT 17000011 TGTTGGTTTC	300
	TTAGGAATTT CTTATGTTAC ATTCAAAAGT GTGCAGTTAA TTATGGAAAT TCGTGATGGT	360
5	TCTATCAAAG AAATTAAAGT ATGGAAATTA ATTCAATTTA	400
	(2) INFORMATION FOR SEQ ID NO: 1989:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1989:	
	TTCAGCTTAC AATAATGAGC AGGTTGGGGT GGGCTCCAAC GCAGAGAATT TCGATAAGAA	60
20	ATTCCACAAA TAATACAAGT TGGCCCACTC CCATTCTGTA ATAAATATAG GAGGTCATTG	120
	TTATGCAAAT AGAACTTACT GATGCAGCAG TAACTTGGTT TAAAAATGAA CTTGAGTTGC	180
	CTGAAAATAA TAAAGTGCTC GTGTTTTTTG TAAGATATGG TGGCGAATTC CAACTCAAGC	240
25	AAGGATTTAG TCCTGCTTTT ACAGTTGAAC CAAAGGAAGA TGTTGATATT GGCTATGAAC	300
	AACAATATGA CGATTTAAAT GTTGTCGTAG CGGAAAAAGA TTTGTGGTAC TTTGAAGATG	360
30	ACCACATTAT TGTAAATGTA GTTGTCACGA AGATGAATTT	400
	(2) INFORMATION FOR SEQ ID NO: 1990:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1990:	
	CAATTTATTA TGTAACTAAT TATAGCATTG ATGAACAAGG CGCTCAACGT AATAnTACAA	60
	TTAATGGATT GTTTCACAAG ATGGTAAAGC TAGGATGTCT TTTTATTAAG A	111
45	(2) INFORMATION FOR SEQ ID NO: 1991:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TAAACAAATT CATCAATTGT TAGTGGCATA TCCTAATGTA ATTAGAGAGG AGTT	54
	(2) INFORMATION FOR SEQ ID NO: 1992:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1992:	
15	GAACGATAGA TTGATGAAAA GTTTAAAAAA GTACGTATAT GTTTATTAAG TTTGAGTTT	59
	(2) INFORMATION FOR SEQ ID NO: 1993:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1993:	
	CGAGACCAAA ATATTCGAAC GAATAATTTC AGTGTTTTGC TCCTTTATTA TAGATTCAAG	60
30	CTATGGATAA TAG	73
	(2) INFORMATION FOR SEQ ID NO: 1994:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1994:	
	ATCCATACAA ATGTAACAAG CACAATTGCn GCCATACTTn GCATGACAGT	50
	(2) INFORMATION FOR SEQ ID NO: 1995:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1995:	

	(2) INFORMATION FOR SEQ ID NO: 1996:	
s ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1996:	
	TCANTTAANA TTAATGTnCG TTGGGGCTCT AATAAAATTT GTTTACAACG	50
15	(2) INFORMATION FOR SEQ ID NO: 1997:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) 10F0L031. IIIIcal	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1997:	
25	TCATGATTTG AAATGACTTT CAATGACTTG GGTGGGACAC TTGTTGCACA GCTGGATGTG	60
	c	61
	(2) INFORMATION FOR SEQ ID NO: 1998:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1998:	
40	CATGCATTGA TGnTCTCAAA GAACATGATG AAACAGGTCA nCACATGnCA	50
	(2) INFORMATION FOR SEQ ID NO: 1999:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1999:	
	GGTTCGCTAC TGATTGGGTA TACATCTGAT TTAGCAATCT TGCGCACTTG TT	52
55		

6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2000:	
10	ATGTGGTTAG ATATCTGCAC ACTTGAACGT TATTGTGGGA TATACTTGGC CAT	53
	(2) INFORMATION FOR SEQ ID NO: 2001:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2001:	
	ATCTCAGTAA GGGTAAGCGT CAAAGTCTGC ACGGATGCTA ATGTTTACCA GGTT	54
25	(2) INFORMATION FOR SEQ ID NO: 2002:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2002:	
35	CTANAGATTG TAATGCTTGA ACAATTGGTT CAGTGAATTT TTGGAAATTG TGGAAACTGT	60
	TACCATCATC ATCTGTTATA AAACTAAAGT TTAAATTGCC AGTATCATGA TAAACAGCGC	120
40	CACCACCAGA AATTCTTCTT ACTACATCGA TGTTGTGAGC ATCGATATAT GTCTGATTTA	180
40	CTTCCTCTAT CGTATTTTGA TTCTTTCCAA CAATGATAGA TGGTCTATTT ATGTAAAATA	240
	AAAAGTAACT TTCTTCTGCT GGTAAATTTT TTAAAACATA TTCTTCCATT GCTAAGTTTA	300
45	AAGTTGGATC TGTAATATTA TTATTACTAA TGAATTTCAT TACAATCTCT CCCTTATATC	360
	TATATATAT CTCTACTTAT TTATGCCTTA ACTTTGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 2003:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2003:	
	CCGAAATAGG ACGGGCAGTT GGATTTATTC GAAATGGGTG GCGTTAATAT ATACAGT	57
5	(2) INFORMATION FOR SEQ ID NO: 2004:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2004:	
	NAGTAGTTGA AGGCGACCGC GGTCCACAAG CTGCAAACGT TGTTAAACTA TAATTCTTAG	60
	ATTTGAATCA TTGATTTTAA CTAACACCTT ACCAAGAAGT AAGGTGTTTT TA	112
20	(2) INFORMATION FOR SEQ ID NO: 2005:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2005:	
30	AAATCTTGAC ATAGGCACAG GAATGTATAT TGATCTCGAT CACTTAAGTC	50
	(2) INFORMATION FOR SEQ ID NO: 2006:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2006:	
	AAGGTGGGTT TAAATTTCCC AAAAAAAAA GCCTTTTAAC CTTTTGGGGG GTCCCCTTTC	60
	CTTGGAATTG GAAAGGGGCC AAAATTGGAA TAAGGGGNTT GGAAAAACCC AAGCC	115
45	(2) INFORMATION FOR SEQ ID NO: 2007:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2007:	
	TGAAGAAATA GCAAATGAAC TCAATATTTC TATTGAACGT CAATATTTCA ACCAATTATA	60
5	TCGCTTCAAT AATCAAGATT TAAAGCATCT TGAACAAGAn TTTGA	105
	(2) INFORMATION FOR SEQ ID NO: 2008:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2008:	
	ATTGGCTACT AAAGTTAAGG ACATGATGGA TTGGATTAGT GGTATGCGCT TTGAAAAGAT	60
20	CAATTAT	67
	(2) INFORMATION FOR SBQ ID NO: 2009:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2009:	-
	TATAAATTAG CGTCCTTCAT ATCACAACGA TGATGCTCTG TGCGAAGATC TGATTTATTT	60
	CAATGTGCGC ACG	73
35	(2) INFORMATION FOR SEQ ID NO: 2010:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2010:	
	CTTTGTTTAT GTTTCGTTTA ATTTGTAACC CTCTCTTTGG ATACCGAGGT T	51
	(2) INFORMATION FOR SEQ ID NO: 2011:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

δ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2011:	
	TAACGACCAA GCTTAAAGAG ATACGCTCTT ATGCGATTGG ATAGGTCGTT AAAGTTAACT	60
10	ACAATACCTC ATAAGTAGAT TTAGAATC	88
	(2) INFORMATION FOR SEQ ID NO: 2012:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2012:	
	GTCAACCCTT GCCAAGCTTA TATCACGATA CTGGGATGTG ACTTCCGGTG AATTAC	56
	(2) INFORMATION FOR SEQ ID NO: 2013:	
25	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2013:	
35	AGCTTATAGT ACTTGTGACT TCATAATGGA TGAAGTTGAA GTACCAAAAG AATTAACACA	60
	ATTACACGAA TAATTTAAAT AGAGAGTGTG ATAGTAGGTG GAATTATTAA ATAGTTATAA	120
	TTTTGTTTTA TTCGTATTAA CTCAAATGAT ATTAATGTTT ACAATACCAG CTATAATTAG	180
40	TGGTATTAAG TACAGTAAAC TTGATTATTT TTTCATCATA GTAATTTCGA CATTATCGTT	240
	ATTTCTATTT AAAATGTTTG ATAGCGCGTC CTTAATCATA TTAACTTCAT TTATTATTAT	300
45	AATGNATTTT GTCAAAATCA AATGGNATTC NATTTTGTTG ATTATGGCTT CGCAGATTAT	360
	CCATACTGGT GCCAACTACA TGGATATAGT TATATATGCA	400
	(2) INFORMATION FOR SEQ ID NO: 2014:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2014:	
5	TCTTTCGAGG ACAGTAGAGG GTCCACCCTA TTGGACGTGG TACTGTACTA CTTTTAAA	58
3	(2) INFORMATION FOR SEQ ID NO: 2015:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2015:	
	TCTACCTGCA GGCATTCAAG CTTGGCACTT GCCGTCTTTT TACAACGTCG TGACT	55
20	(2) INFORMATION FOR SEQ ID NO: 2016:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2016:	
30	TACTCTTAAG CTAACAACGG CGGTTATGAG TCCTTTGACA AGGTATCGGA GGAAAGACCG	60
	TAAAGC	66
	(2) INFORMATION FOR SEQ ID NO: 2017:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs	,
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2017:	
45	CCAATAAGCA CACTGCCATT ATTGAGGACG GTACATNTAC GGTTAGACCC AATTGTTCAT	60
	GGCGGTGGGC ACATAGTGTT TGGCTTTGAG GAGGTTACCA TTGCC	105
	(2) INFORMATION FOR SEQ ID NO: 2018:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
	(A) DENGIN: 35 Dase pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2018:	
	CCTTCCAATA GTAATTGATT GATGTATGAG TATATTAGGT GTGAAATCAA GAGGATTC	58
5	(2) INFORMATION FOR SEQ ID NO: 2019:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2019:	
	TTTCCTCGTA GGTGGTTCTT CTTCATCTTC GTTGTTTTGT CCGAAGTTTG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2020:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2020:	
30	ATAGTTTAGG TGAGGATGTT GNGGTACGAC AGGAAGAAAG ACGGCAAACA	50
	(2) INFORMATION FOR SEQ ID NO: 2021:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2021:	
	TTGTCACAAT AATTTCTTCA GGATCATAGG AAAAATGATA ACGATTTTTG AAGTATTGAC	60
45	TAATTGCTTC GCGAGTTTCT AATAACCCTT TATTGTGAGA GTATGATGTC TTGTCATTGT	120
	TAATAGCATC AATATATGCC TTTTTCACAA CATCAGGCAT CGGGAAGTCT GGTTGGCCAA	180
50	TAGTTAAATT AACACAATCA TCCAAATTAT TCATACGATT TGAAAATTGG CGATACTTGG	240
-	GTGGCTCCTA AAATAATTAG GAAATGAGGA NTTNAAGGAA GGTTTCCATT TNGTGGACAC	300
	(2) INFORMATION FOR SEQ ID NO: 2022:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2022:	
	TCATCCAAAT TATTCATACG ATTTGAAAAT TGGCGAATAC TTGGTGCTCT TAAATATTTA	60
10	GAATTAGAAT TTAAAGAAAG TTTCATTTGT GACACCTCAA ATATAAATCA AATATTGTCT	120
	AAAAATTTAG AAATTAATAA TATCATAACA TACTTTTAAA GCAAAAAAGG GTAAATTACT	180
	TAAGCTTTAT TTGAAAAACG AAAAATGTCT AAATACACTG TAGTAACTAC TTTTCAAAAT	240
15	GAATAAAGTG GTTACAGTTA ATGTACTTAG ACAGTATAAA ATTATGAATC TTTAAACTGT	300
	GATGGTCTTT GTAAATTAAT TATTGGATTT GTCCATTTAC AAACAAAGTT TGTAGATAAT	360
	ACATATACGA TGATTACAGA TATACTTATT AAATAAAGAT	400
20	(2) INFORMATION FOR SEQ ID NO: 2023:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2023:	
	TTHAAATATA CCAATCACGT TCATCCACAG TGATCCTAGA CCAATCCAGA	50
35	(2) INFORMATION FOR SEQ ID NO: 2024: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2024:	
45	TTTTTAATGG TTTAAAAATT CCCTAATAAA ATTTTGGAAA ACCTAAATTC CAAGGGGTTA	60
	AATTCC	66
	(2) INFORMATION FOR SEQ ID NO: 2025:	
50 55	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2025:	
	GTAAGAGCAA TGGCGCAAAA TGCCTGTAAT GATATTGTGA ACGTAATTGA ATCAGTAGAG	60
5	GACC	64
	(2) INFORMATION FOR SEQ ID NO: 2026:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2026:	
	CTGTCGCTGC GTGACTTAAT TCTTTTGCCC CGTTGGCATA TGAGGAAATG TCA	53
20	(2) INFORMATION FOR SEQ ID NO: 2027:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2027:	
	CATTTCACTA TTATTGGTTT AGGGTTGTTC ACGTTCATCA TGACCGCACC ACA	53
	(2) INFORMATION FOR SEQ ID NO: 2028:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2028:	
	CAACTAGACA TAGTATTGCT GCATTAATCA AGTCAAGCTG CCACACTAAG AATCGATGCA	60
45	AACGGAATCG TCA	73
	(2) INFORMATION FOR SEQ ID NO: 2029:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>5</i> 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2029:	
	AATAATAATT CTGGAATAGT GTTTAATACT TATTnTCCGT TTAAGATTTC AACTTAATAT	60
5	GGTTTACAGC GCGTAGCTCG TCTAATTCAT CATCACGTGT AGAGTGCTCT GCCTTATCAG	120
	ATCAGTT	127
	(2) INFORMATION FOR SEQ ID NO: 2030:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2030:	
20	GCAAGTGAAT TGAAGTGACA TGTGGCTGGT GCTTCATGGT AATGATAAAC CAACACCATG	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 2031:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2031:	
35	ATAAATATCT ATTTAGATAT AAGTATTGAT AAGTTGCTTG AATTTATAAA GTGAAGGAGT	60
	AGGTGTCATT AGTATAGT	78
	(2) INFORMATION FOR SEQ ID NO: 2032:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2032:	
50	GAATAGTGTT TATAAAATGT TGACACTGTA GTGGCATATT GTAAATTAAA TATTATTATG	60
	TGATCATTTT GTTTAAATAT TAGTTATAAG AAGTGAAATA nTCATTTTAA AAGGAGACTT	120
	AAAACTTGAA ACGATCAACG AATCAAGAAA AATTTCTTGA TACACTAATT AGACTTAATA	180

	(2) INFORMATION FOR SEQ ID NO: 2033:	
6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2033:	
	TTTTGTCATC TGTATAGGTA TGCGCGCCGG TGTCTTTATT CACTTTGAAC TGTGCGT	57
15	(2) INFORMATION FOR SEQ ID NO: 2034:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2034:	
25	AAGGCATTGG ATATAAGACT TGATGTTGCA TGGCAATCAC ACTGCCTAAT CCTTGCATAT	60
	AA	62
30	(2) INFORMATION FOR SEQ ID NO: 2035:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2035:	
40	ATGGCAAATA CTATACATCG TCCAATTGAT TGAAAAATAT GGTTATTAAA GA	52
	(2) INFORMATION FOR SEQ ID NO: 2036:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	10, 10102031 22021	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2036:	
	AAGGTGTTTT TATATGCTTA TTACAAATAC TTAACGCGAT GAGTTTCTCA ACCAAATTGA	60
55		

	(2) INFORMATION FOR SEQ ID NO: 2037:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2037:	
	TACCCACCC CAAACCCAAG GTTTTAAAAA ACCCCTTCCA AAAGCCCGGA AAAACCAAAA	60
15	GGAATTATIT T	71
	(2) INFORMATION FOR SEQ ID NO: 2038:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2038:	
	GAATCCCGGA AGTACAATTT GGTACGTGAA GAAAATGGTA GTGGAATTAC	50
30 , 35	(2) INFORMATION FOR SEQ ID NO: 2039: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2039:	
40	CAGTATCTCT TGGTATTTTA ATTGGTGCTT TATTAAACGT AATTTTACCT TTATATATCG	60
	ATGGAGCGAA GAGTATTTTC GTATACGTTT ATAGTGCGTC TATTTTACCA GGTATGATTC	120
	CITGGTTTAT GATTTTATTC AGTCATTTAC GTTTTAGAAA ATTACACCCT GAAGAATTGG	180
45	AAGGTCACCC ATTCAAAATG CCTGGTGGCG CAGTAACTAA CTATTTAACA ATCTTATTCT	240
	TAATATTAGT ATTGGTTGGT ATGGTATTTA ATGTTGAAAC TAGAATATCA GTGCTTATTG	300
50	GTGTCATCTT CTTAACGATT GTAACGATTT ATTATTTTAT TAGATATAAT AAAAnTAATG	360
<i></i>	TARAGCANAA TAGTATGTTA TAANGAGCGN TACTTATGAC	400
	(2) INFORMATION FOR SEQ ID NO: 2040:	

5	(A) LENGTH: 79 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2040: AGCTGATTT TTCTAAATGT TGAAAATCAT AAACTGCTTA ATAATAAATA ACGAGATCTA AGTAATAGTG CTCCATTAA	60 79
15	(2) INFORMATION FOR SEQ ID NO: 2041: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,,
20		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2041: AATTGAACGG ATCGTTCCCA ACCGTTATCA ACCCAGACCG GTGTTTGAAC CCAA (2) INFORMATION FOR SEQ ID NO: 2042:	54
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2042:	
40	AATGGGATTG GTTCAAACTG AAATGGGCTG TTAGTCCCTG TAAAACCAAG (2) INFORMATION FOR SEQ ID NO: 2043: (i) SEQUENCE CHARACTERISTICS:	50
45	(A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2043:	
50	ATTGGNATAA TCAAAGCATT GAATCATACA TAGTCACATT GATTGTTTCC TCAGAGTTTC	60
	AACACTCTAT AACTCATTTT AGTAATTTGC TGATTGCGCA CTTCATGTG	109
5 5	(2) INFORMATION FOR SEQ ID NO: 2044:	

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: lin ar	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2044:	
10	TTTTATGGAG GTGATGAAGT GGGTGAAGCT GAAAGGAAGC AAAAGCTTGG	50
	(2) INFORMATION FOR SEQ ID NO: 2045:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2045:	
	TTGGCCCCCT TCCAACCCTT GGAAATTTTA AAAGGCCANT TTTGGGGTAA AACCCTTGGT	60
	TCCAAGGACC CCCAAAAGTT TTTTAACCTT CCAATTATTA T	101
25	(2) INFORMATION FOR SEQ ID NO: 2046:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2046:	
	ACCCTTTCCA AAAAGCCCAT TTTGAATTCC CCAAAGGGAG CCAAATTTAA GATGGCCGCn	60
	AAAAAGGACC GGGGGGTCCA TGTTTTAATT TAAGCCGGAC	100
40	(2) INFORMATION FOR SEQ ID NO: 2047:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2047:	
	GTTAGTTATG AGCAACGTAT TAATGAAATT ATTGAGCAGT AATTHACCAG	50
	(2) INFORMATION FOR SEQ ID NO: 2048:	

5	(A) LENGTH: 56 base pairs (B) TYPE: nucl ic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2048: TACGTATTTT CAAATGACGT TGGTGGACGT CACACTCCAT TCTTCTCAAA CTATCG (2) INFORMATION FOR SEQ ID NO: 2049:	56
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2049:	
25	TTTTCCCCCC CCCCCCAAA TTGGGGGTTA AAATTTTAAA AAAAGGGGTT AAAGGGAAAC CCCAATTCCG GTTAACCTTT TG	60 82
30	(2) INFORMATION FOR SEQ ID NO: 2050: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2050:	
40	TCAGATGGAT GGCAGTTATT TGGTATTCCA TGGGTATAAA GATAGCATAT T (2) INFORMATION FOR SEQ ID NO: 2051: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	51
6 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2051: TGAACGGGAG AAAGATGTTG TTGCATGGTG TCTCGGAAAC GTTTGTGTCC ACGTA	55
55	(2) INFORMATION FOR SEQ ID NO: 2052: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2052:	
	ATACCTGGAT GCAAAGGCAA AGTCGCAATT TTCCCTGTTC TAATGTGTCT AACTTCTCTT	60
10	CTAAAGTTCA GGTT	74
	(2) INFORMATION FOR SEQ ID NO: 2053:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2053:	
	AATCTTGTCT GATGTAATGT TCAGGTCCCT TGACCCTCAT ATGCATGAGG T	51
25	(2) INFORMATION FOR SEQ ID NO: 2054:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2054:	
35	CATCGACTTA TAGCTTAATT ATTATAAAAA ATTTCTCCAG ATTTAACTTT CT	52
	(2) INFORMATION FOR SEQ ID NO: 2055:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2055:	
	ACTGACACAT TATATTAGTG AATTATTAAA AAATGATGAG AAAATTAAAA TCATCATGAA	60
50	TGAATTCGGT ACTITTGATA TTGATAGCAA TAGTATTTCA AATGAAATTG AAGTCCATTC	120
	ATTGATTAAT GGTTGTGTTT GTTGCGATCT TAAACAAGAA CTTGTCTATG AACTAAAAGC	180
	CATTGCTTTA AAAGGGGACG TTAATCATGT CATCATAGAA GCGACAGGCA TTGCGCATCC	240

	TTATTTATUG TGTATTAGAT GCGACTCGAT TTTTAGAACG TCATCAATAT ACCGAAAAAT	360
5	ACAGTTTCGC TGGATGGGGA GGATCCAGTT GGAAACTAAn	400
	(2) INFORMATION FOR SEQ ID NO: 2056:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2056:	
	TCAAAACTIT GAAGTIGIGC TIGCTITIGCA CCATTITITAA AATGITCAGC TGAGAGTATA	60
	TCTTCCGCTG TAAAATTTAC TTCTCCTGGA CTTAAAGATT CAATTAACAA CCAAGCCGAT	120
20	AACGTATCAT TTAGCAATTG ACTCATGAAA TCCCACCTTG TTCCCTATTT GTTTTTACT	180
	TAATGCTATT TTAACAAATA ATTTAATCAT ATTAGTGTTT TTTCAAAAAT ATTCATATAT	240
25	TATCATTACC ATATTTATTC AACAAATGTT TGTAAAATCC TCACTAATAA AATTAATCGA	300
23	TATGACCATA ATTCATTATC CAATAAATGA CTATAAAAAT TTCTnCTATG CCTTCATTTG	360
	CAACTAAATT TGGACATCAA AAAAGAGCAC TCCTGAATGA	400
30	(2) INFORMATION FOR SEQ ID NO: 2057:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2057:	
40	TTGTTGTTGT GATTTCACAT TTTCAAAATT TTGTTGCATG TTGTTAACTT CATAAATTAG	60
	TGATTCGACT ACATCATTCA TGAGGACGCC TCCTACATTT TTTAATTTAT CACAATATAC	120
45	TGTATTCGTC ATGTTTTAAC ACTCTATATA ATTTGATTTA ACTATTTTTT CAAATGTGTT	180
	ATCTGTTAAA TCAAGTAAAT CTAAAAACTT CCTATATAAA TACAAAATTT TATCGTGTAT	240
	GTTGTTATAC GATGAAAATA CTTTTAATCT AATAAAATCA TTTAAATCAA ATACACCTCT	300
50	GCTGATTAAC AACACATACT TGTACTTGCC TCAAAAATAA AAATTACTAA TCATGATTTG	360
	ACTTTTATAA CAAAATTCAA AAATATTGTA ATGAGTATTC	400
	(2) INFORMATION FOR SEQ ID NO: 2058:	
55		

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2058:	
10	TCTTTTACT CGCAATTTTA GGAAAAATGG TTGGATCAAT TGATAAAACC GGAAAATTAT	60
	TAACAATAAT CAATAAAATA TCAAGCATAA TAATTATTAT TGTTGCTCTG ATGATATTAC	120
	AAAAACTTAT TCAATTATTA TTCTAAAGCG TTATGTAGTT GTATTTTAAA AGCGTTATAC	180
15	AAAAGACATA CTTGTGTCTA TGTATAACGC TTTATTTATT ATAAATTTGG ATCAATTAAC	240
	TCAACAAATT TAAATGTTCC ATTGTCATAT TCAAATTTCA GGATATTACA ATTACCGATA	300
	TTATGCTTA ATGCTTCATC TAGTTTAAGG CAATATCTTA AAAATACCnC CCTTAnTGGT	360
20	CCATGACTCA CGACTAATGC ATTATTCTTT GGTTTGAGAC	400
	(2) INFORMATION FOR SEQ ID NO: 2059:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2059:	
	AAAACAACAC AATCAAAAAT ATTGGATACA ACTGAAAAGT TATCAAAGCT A	51
35	(2) INFORMATION FOR SEQ ID NO: 2060:	-
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2060:	
	TTATCATGTT TAGTAGATTT TAAGAAGCTA GAACATTGTA GATATGATGA	50
	(2) INFORMATION FOR SEQ ID NO: 2061:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 5	·	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2061:	
5	AACGTCGTnA TATCAnCTTG CCAAACAAAG ATATTGTCAC CTTTTATCGG	50
	(2) INFORMATION FOR SEQ ID NO: 2062:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2062:	
	ACCATGGTGN ATATGGTCAT GATGATCGTT TGTGCCGGGA GCTTGAGCTG	50
20	(2) INFORMATION FOR SEQ ID NO: 2063:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2063:	
30	TTTCCCTTGG TTTTGGAATT TAACCAAATT TGGGAGGGAT TTGGGACCAC CCCCAGGATT	60
	TTAAAAAAA AAAATCCCAG G	81
35	(2) INFORMATION FOR SEQ ID NO: 2064:	
~	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2064:	
45	TTITGGGGAC CTTAACTGGG TGGGTCTGGA ACTGTTTCCC TTTCAAACAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2065:	
5 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATGATGTATT CAAAAGGTAT CTATAAAATA GCTTTAGTTG GAAAAGATGA GA	52
5	(2) INFORMATION FOR SEQ ID NO: 2066:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2066:	
15	TTTCATCACT GGCATCTTGT AATTTCTTGG TCTCATATCT GGAATTAATA GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2067:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) STRANDEDNESS: GODDIE (D) TOPOLOGY: linear	
25		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2067:	
	AACCATTAAG AAATTGGATA CACAGAGCAA ATATGGTTAT GATTAGGAAC CATGGCATTT	60
30	ACC	63
	(2) INFORMATION FOR SEQ ID NO: 2068:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2068:	
	ARAGGCAGCG ATGTTACTCA TACCGARCCT GGTTATATAT GAGCGATGAT GCAATGTA	58
45	(2) INFORMATION FOR SEQ ID NO: 2069:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 67 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2069:	
5 5		

	AACAGGA	67
5	(2) INFORMATION FOR SEQ ID NO: 2070:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2070:	
15	CATTTAACCC ATCTTCTTTT TTTAATTCTT CTATACTACG GTTTAAAAAC TCTACAATAA	60
	CTGCCATTTC ATCATCATCA AAGACT	86
	(2) INFORMATION FOR SEQ ID NO: 2071:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2071:	
30	GTTTCTTCAA AATATGTGTA TTACCTTTTT GTATGGTTAA ATCTTTTAAT TCTATCATTC	60
	TTGTCTTACC TCTTTTGGTG TATCCTCTTT TTCAACATAT GTGATCGATA TGACATATTG	120
	CCCTTTATGC TTTATTTCGA CATACGTTCT ACTAGGTGAA AATCCATTAA ATGTTAATTT	180
35	ATAATCAAGC TTTTCCCCTC TTTCACTATA AGCCGTAATA TTAACATATT GTTGCGTACC	240
	TTTTGGCACT TTGGCATAAC TATACTCCGT TTTTAAGAAA GGATTAAAAC GATCAAGTAT	300
	AGGATGATGT ATGANTGTAA AAGCAATAGT AATGGATAAT ATTAATCCTA ATAATATTGC	360
40	AATGATAAAT TICATAGTTA A	381
	(2) INFORMATION FOR SEQ ID NO: 2072:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2072:	
	ATCCCCGAAT TGCTTCGCAA ATGTATCATC TTCGAGGCTA CGTTACTTAA AT	52
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2073:	
	CCAAAAACAG CATCACTGTG ATTATGGTTT TCATCTTCTA TAACTAAGAA TACATGTTTT	60
	TTTGTAAAAA TTTTTTTGAT CA	82
15	(2) INFORMATION FOR SEQ ID NO: 2074:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2074:	
	TTTATCGCAA TGAGGGAAGA TAAAGGATCC CGAAAGCGCC GTATGGGTTG GCAAACATTG	60
	GGGACCAAGA CCGTTCCCCA TA	82
30	(2) INFORMATION FOR SEQ ID NO: 2075:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2075:	
.•	CTTGGTTGCT CTTTATTTAT TTAATTGAGA CCTAGAAATA AGTTATTAAG CACAATCATT	60
	CACTTT	66
45	(2) INFORMATION FOR SEQ ID NO: 2076:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2076:	

(2) INFORMATION FOR SEQ ID NO: 2077:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2077:	
	TACGTTCTAT CATAGAGCCT GGAGATGAAA TTATAATACC GGGACCAATT TATGCAGGCT	60
15	ACATACCACT CATCGAAGTA CTAGGTGGTA AACCAATTTA TATTGATACA ACAGCAACAC	120
	AATTTANAAT TACACCTGAT GCATTAGAAA GTCATATTTC TCCAAAGACA AGAGCTGTCT	180
	TGTTAAATTA TCCGACTAAT CCAACTGGCG TAGTTTTAAA AAGAAAtGAA GTTYTAFATA	240
20	TCGTAAATGT ATTAAAAAAA TATCCGTTAT TTATTATTAG CGATGAGATT TATGCTGAAA	300
	ATACATTTAG TGGTAAACAT GTATCC	326
	(2) INFORMATION FOR SEQ ID NO: 2078:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2078:	
35	ACCCCTTAAT TTAATTGATG TTTTGTTATT TTTAAAATGA ATAGTTGAAG AAAAAT	56
	(2) INFORMATION FOR SEQ ID NO: 2079:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2079:	
	CACGTACTGC CATGTATGCA CAAGCCGGCA TTCATAAAGC CTTCCATGGC AGTCGTTATC	60
50	A	61
50	(2) INFORMATION FOR SEQ ID NO: 2080:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs	
55	(A) CONTRACTOR OF THE CONTRACT	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2080:	
	TGGGACAGGG CGTACCATTT CAAAATGATA GTTCTGAGCT GCTAATTAAT ATGCCTTCGA	60
10	AAAAGATGAG TTTAAATTTA GATGATGAGA CTGA	94
	(2) INFORMATION FOR SEQ ID NO: 2081:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2081:	
	AAGACGACAT GCAAGACATT GCCTTATCTA ATGACAATGT TAAAGCGAGT	50
25	(2) INFORMATION FOR SEQ ID NO: 2082:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2082:	
35	TTGTTCGGCT AAAAATAAAG TGGCATTGAC GTGACCGCAA GTTGACGTAC	50
	(2) INFORMATION FOR SEQ ID NO: 2083:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2083:	
	CTTCCCAACA TTGCGCACTG AATGGCGATG GCGCTGATGC GTATTTCTCC TACGCTCTnG	60
50	CGTATTCAAC CGCTATGGGC ATCTCATACA TCTGTCGATG CGCTATTAAG CAGCCCGAAC	120
	CGCACACCGT GAG	133
	(2) INFORMATION FOR SEQ ID NO: 2084:	
5 5		

5	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2084: GGTAGGGGCA CTATTTTGTA TGTAGAGGTT TTGTCGGGCA GTGTGAAATC AACGACT	57
	(2) INFORMATION FOR SEQ ID NO: 2085:	3,
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2085:	
	CCCCCCCAA AAACCGCCCC CCCCAATTTG GCCTTTTTCC AAGGGGGGTG TTTTAA	56
25	(2) INFORMATION FOR SEQ ID NO: 2086:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2086:	
35	AATAGGAGA GCCGACCAT CGCCTCCAGA TTGCGACTGA ATGGCAATGC GCTGATGCGT	60
	ATTTCTCCTA CCATCGTGGT ATTCAACGAT ATGGGCACTC TCATACAATn GCTC	114
40	(2) INFORMATION FOR SEQ ID NO: 2087: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2087:	
50	AAGGGGGAAA AGGAACCCAA GGCCCCCTTC CCAAGGAAAT TGGGGGGTTG GAAAAAACCA	60
	AAAATTTTTT AAAAACCCGG	80
55	(2) INFORMATION FOR SEQ ID NO: 2088:	

5	(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: doubl(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2088:	
10	GGGGTAAGTG GTTGAGACAG GAACTTTACA AGAGGTGTTT CGTCATCCTA GAACGACGCT	60
	TGCTCA	66
	(2) INFORMATION FOR SEQ ID NO: 2089:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Topologi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2089:	
	ATCAATGTAT TACGTATCGA AGGTGAATTA TATCATACTG CTAAATATGA CGGTTTCACA	60
25	TC .	62
	(2) INFORMATION FOR SEQ ID NO: 2090:	Ų2
30	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2090:	
é	GAATTCGCTA TCCTGAAATC CTGAGTCGCT GTCCTGAAAT CTGAAATCGC	50
40	(2) INFORMATION FOR SEQ ID NO: 2091:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	() CROUDING DECORIDATION, CRO TO NO. 2001	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2091:	
	CGGGGTTCCC CCGTTCAATT CCCTTTGAGT TTTCAACCTT GCGGGTCGTA ATTCCCCAGG	60
	CCGGAATTGC TTAA	74
55		

5	(A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2092:	
	ATTGTTGGGT ACGGTGGTGG GTTAATAATC CAAACACGTT AAACTACCCG TTTTAGATAT	60
	ACCTATACAA	70
15	(2) INFORMATION FOR SEQ ID NO: 2093:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2093:	
	GTTTTGGGTC TTGGGTATTA GTTTAATCTC CATCATGGTT AATTGGTATG GTATTGGTAT	60
	TAGTAATCAT GTATGATGGG CTGGGCGG	88
30	(2) INFORMATION FOR SEQ ID NO: 2094:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2094:	
	TGGCCATTGA GGCGCATTAC GTACTACGGC TTGTCGTAGG GACAATTATT AT	52
	(2) INFORMATION FOR SEQ ID NO: 2095:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2095:	
55	AGTTGATGCA ATGAGTGATG CAAGGCGACT GAAAAGTTGG TATGAATGAC AAAACTTTAA	60

	(2) INFORMATION FOR SEQ ID NO: 2096:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNBSS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2096:	
	ACTIANANT TANTACGGTA TITTCAAAAA CGAATAAAAG TIACCTCTTG TCT	53
15	(2) INFORMATION FOR SEQ ID NO: 2097:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2097: AACTTAATAT TGCTACGATA TGAACGGCAT nAACATACTT AGCGnTGnTC	50
		•
30	(2) INFORMATION FOR SEQ ID NO: 2098: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2098:	
40	CAAAATAAGA AATTAATTAA GAAAATGCCA AGATGCCAGA TGCCATCGGC GGAAAGGAAA	60
	TTGCACGTAC GG	72
	(2) INFORMATION FOR SEQ ID NO: 2099:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2099:	
	CCACCCAAAC CCAAAAAATA AAGCCCAAAA AATTGCCAAG GAAGGAAAAG GAAAATTGTT	60

(2) INFORMATION FOR SEQ ID NO: 2100:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2100:	
	CACCAATTTC TTCTGGnGCT GGATCTCGAC CTAAGTCCTG TAATAATTGA CGTTGAACAC	60
15	GAATTAATTT ATTAATTGTT TCTACCATAT GCACAGGGAT ACGAATCGTA CGTGCTTGGT	120
	CAGCAATTGC ACGAGTGATT GCTTGTCTAA TCCACCATGT TGCATATGTT GAAAACTTAA	180
	ATCCTTTGTT AAAGTCAAAT TTTTCAAC	208
20	(2) INFORMATION FOR SEQ ID NO: 2101:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2101:	
	TAATGAAATT AAGTAAAATA AAAATTATTT CATGGATTGC TTCTATCTAT ATCGAAATAT	60
	TAAGAGGAAC ACCAATGTTA GTTCAAGTAT TTATCGTATT CTTTGGTATA ACTGCTGCAT	120
35	TAGGACTAGA CATTTCAGCT CTTGTTTGTG GAACAATTGC ATTAGTTATT AATTCCTCAG	180
	CTTACATTGC TGAAATTATT CGTGCAGGTA TAAATGCTGT TGATAAAGGC CAAATGGAAG	240
40	CCGCACGTAG TCTAGGTTTG AATTATAGAC AAACGATGAA AAGTGTAATT ATGCCACAAG	300
	CAATTAAAAA TATTTTACCA GCTTTAGGTA ATGAATTTGT CACTTTAATT AAAGAATCAT	360
	CTATTGTGTC AACAATTGGA GTTGGCGAAA TTATGTTTAA	400
45	(2) INFORMATION FOR SEQ ID NO: 2102:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2102:

(2) INFORMATION FOR SEQ ID NO: 2103:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2103:	
	TTTAAGGAGA AAGGTCATTG GTATAATCTT GAGAAAGAGT GGCAAGAGTT CTTAAACTCT	60
15	GGGAAAGAGG TGAAAAATAT TAAAATGGAA GTAAAATATA GCGGTAATAG TCAAAGACCG	120
	ACTATATITA AAGTIGAATA TGAAATTAAT GGTGAAAGAA ATATTAGAAG AATATTAAAT	180
	AAGTAGAGGT GCCAACATGA CATTTGAAGA GAAGCTTAGC AAAATATACA ATGAAATTGC	240
20	GAATGAGATT AGCAGTATGA TACCGGTAGA GTGGGAAAAA GTATATACAA TGGCTTATAT	300
	AGATGATGGA GGAGGTGAAG TATTCTNTAA TTATACTAAA CCAGGNAGTG ATGACTTGAA	360
25	TTATTACACC AATATACCTA AGGGTATAAC ATTCCGGTGC	400
	(2) INFORMATION FOR SEQ ID NO: 2104:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2104:	
	AACCATCATA AAATGTTATT AAACCGTCAT GGACCGCGTC ACCATTTAGT CCT	53
40	(2) INFORMATION FOR SEQ ID NO: 2105:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2105:	
50	AAGCACAAAT TAGCAGAGTG TTTTAATTTA AATGAACAAG TACCTTTACA ATTTTTGGAT	60
	AATGTAAAAG TTGGTAAAAA TAATATTTAT GnTGCTTTGG AAGAGTTTGC CAACAA	116
55	(2) INFORMATION FOR SEQ ID NO: 2106:	

5	(A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2106:	
10	AATTTGCAAA AGAATCATGG ACAATTGAAA GCAAAAAGGA TCATCATTAA AATTGAACTG	60
	с	61
	(2) INFORMATION FOR SEQ ID NO: 2107:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(D) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2107:	
	GAACCAATGT TAAGCTAATT AATGGAATCC TAACAGCGTT AATCTATTTA AAAAACTTAA	60
25	(2) INFORMATION FOR SEQ. ID NO: 2108:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 126 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2108:	
	ATTTGAMAAT GAATCTGTGG AACATTTTGC TAATCATGAG GATAAAATCA TATGATGTTG	60
40	AAAGCGAGAA TGGGATTACG TTAAACGTGG GCGCTGCTAA TTTAAGCACC TTATTTAGTG	120
	GAAGAT	126
	(2) INFORMATION FOR SEQ ID NO: 2109:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
5 0	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2109:	
55	ATAATGTTAA AAAAACGGCA ACTAATCTTT TCATACTAAC AATGATTATA TGTACAATAA	60

	CGTTAATAAT GCTAGATAAT TITAAAAAAA TGAAAAACCG TGAATATCAA AAAGAAATAG	180
5	CAGAAAAAA TAGACATATT AATACATTAA TTGCTGAACA AGAGCGACAT AGAATTGGTC	240
	AAGACTTACA TGATACGTTA GGGCATGTGT TTGCAAGTTT ATCATTAAAA TCAGAATTAG	300
	CTTATAAACT AATAGATGCT GATGTAGANA AAGTAAAAGC TGAATTATTA GCAATTAATA	360
10	AATTATCTCG TGAATCATTG NACAAAAGTC GAGAAATTAN	400
	(2) INFORMATION FOR SEQ ID NO: 2110:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2110:	
	AAGATTTAAT ATCGGGGGTA ATGTTGATTT TCAAATATCG CGATGTGCTT GTACCACCAT	60
05	T	61
25	(2) INFORMATION FOR SEQ ID NO: 2111:	-
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2111:	
	TATACTAAAT TATGGCAACT TGGCTCATAT AGGTCGAGTT ACCAGACATA TTCGG	55
40	(2) INFORMATION FOR SEQ ID NO: 2112:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2112:	
50	CGAATAAGTT CTGGGCCTTT TGTTGTTCAT TAGCTTGTTT CTGTTTTGAT TGTTCTGCCA	60
	TTTGAACTAC ACCAACCTTT TAAATTTATT CTAGTGACAG GATAACTAAA ATATATTTCT	120
55	TATGCAATAA TTTCCTATTG ATAAGCATTT TCAGATTTTA GTTGTAAATT TTGCCCTAAT	180

	AATTTATAAA GAATAAATTC GTCTCCTCTT TGACCTATAA TATATTGARC ATTATAAGCC	300
	ATGCGATTCA TTCCAGACAC AGCCATAAAC TCTTGTTTAT CTATCATTTT AAATACCATT	360
5	TITAATTTGG CTTAATGGGA CATTCCGTAT TAAATCATTT	400
	(2) INFORMATION FOR SEQ ID NO: 2113:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2113:	
	TGTTTTCAAA GCATGGTATA AATGCTTTGT AACATAGGTT TTGCCTACAT CAGTATTCGT	60
20	ACTTGTAATA AAAATCCTCA TAAAAAT	87
	(2) INFORMATION FOR SEQ ID NO: 2114:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2114:	
•	TTTACAAGTT AAATATAnCA CTAAAAATTT TTAAGTCAAT AAGAATATAT	50
35	(2) INFORMATION FOR SEQ ID NO: 2115:	
40	(1) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2115:	
	TGTGCATAAA ATCCTTTTAC TTTTTGTAAT TGATTGTTAT CTTTAACAAT TA	52
	(2) INFORMATION FOR SEQ ID NO: 2116:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2116:	
	ATTTANAACC CAATTCCCCA TTATTTTTTA AAACGGATTC CATGGGTGGA CCATTGGAAA	60
. 5	TTTTAAAAAA ACCATGGCCC CATTCCAAAA AGTTAGGATG GCCAAAAAGC CTT	113
	(2) INFORMATION FOR SEQ ID NO: 2117:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2117:	
	GATTTATCAA CTATTTCCGT ATTTTGATTA TCTCCATACA ATTTCCAATC CTCTGGCTTA	60
20	TCAATAAATA ATGATAATGG CTTATCTTTC GAT	93
	(2) INFORMATION FOR SEQ ID NO: 2118:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2118:	
	TGATTACCTT GANACATGAC TTTNCCTGAN TGGTAAATAT TTACAGTTGT	50
35	(2) INFORMATION FOR SEQ ID NO: 2119:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2119:	
	AGATATAAAA TATAAAAAAT TATTAAAAGC TATATCCAAT CAAGACTTTA AAGGGTTAGT	60
	TCCAAATATC AATCAGAATG ATAATTATnC TGAAATATAT ATAATTAACA ATACTAAAAA	120
50	CTTAATATAT CATTTATATG ATGATAGAGG TCTATGGCTA GCTTTTAATA ATAATGAAGA	180
	TTATGCAAGA TATHCTGAAA AATATAATGA TTTAATA	217
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 2120:	

5	(A) LENGTH: 75 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2120:	
10	AGACTTAGTA AAGTTAGATC ATCTAAAGAT GAGCGTAAAA TTTATATTTA TTTAAATAAT	60
	GGATGATATA TCTAA	75
	(2) INFORMATION FOR SEQ ID NO: 2121:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2121:	
25	CACCACCTAC ATTTACTATA TAAAATGTAG GAATGGTAGA TTGATTTAGA TAAACTGGAC	60
••	GTATCACTTT AAGTGCTTTT TCAAAGA	87
	(2) INFORMATION FOR SEQ ID NO: 2122:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2122:	
40	TGTTCTTTAG CTAAAGCTTT AGCTTCTTCA TCACTTTTAA CTTCATAAAA ATCTACACCA	60
	GTAGCTTCTT	70
	(2) INFORMATION FOR SEQ ID NO: 2123:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2123:	
55	TANATCTAAA AGGAGAAATG CTGAAGATGA GAGAGGTATT TTTGAAATGT	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2124:	
	TTAAAGGGTA ATTGTTTTAA AAAAAGATTA AACCGAGGAC TTTTAATTGT TAAAACCATC	60
	CCT	63
15	(2) INFORMATION FOR SEQ ID NO: 2125:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2125:	
	TGTAAACGAC TATTACATGA TCACAATCCA TTCAGCGCCA TTATATAAAG GTACTTAATA	60
	TAGGACATCA TTCGCAGC	78
30	(2) INFORMATION FOR SEQ ID NO: 2126:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2126:	
40	TTTGGTCGTG TGCAAGACAG AAGTCGACAT ACTCCAATGA AACATCATGT	50
	(2) INFORMATION FOR SEQ ID NO: 2127:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2127:	
	TTTGTGTCGA TGCGCTTTTT CACTTCTTCT GAATGCTCGA AATCATTCGT	50
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: lin ar	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2128:	
10	TGTCTGAAAT GATCATTAGG ATTGCTCCAG CTCAATGTCA GTnGnAATGA	50
	(2) INFORMATION FOR SEQ ID NO: 2129:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2129:	
	TCCAATTACC TACAAAGTGA GTGCTTTCTT GACCAAGTCA AAACGAACTT TTATATTTGT	60
25	CCAAC -	69
	(2) INFORMATION FOR SEQ ID NO: 2130:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2130:	
	TTCCAAGGTG TCGCTGACTT TCAACACACT GAATATATAC CTGCCAGTCG GCTGGTCATG	60
40	c	61
	(2) INFORMATION FOR SEQ ID NO: 2131:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 92 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2131:	
	AGTTCTTCAG TCCAAATGCG GCATGTTGAC CCACCATAGG CGAGGGCATT TTCACCACGG	60

	(2) INFORMATION FOR SEQ ID NO: 2132:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2132:	
	CCCCTCGAGT TITTTTTTT TTTTTTTTTA CTGGAGCAAA ATGAATTTTT TTTATTGTAC	60
15	TTCAGGGCAA CAAGTCAACA GCTGCAGGAA AACAAAACCA GGTCCAATCT ATGATCTAAG	120
	AGGAAGTCAG GAAAGGCTTG GAAGAGAGAT CCAAAGGCCA TCCTGGCAAG GGGAATCCCA	180
20	CATGAGAATT CCTGGGAGAG AGCAGGCCCC AGGCAGCAAG GTCATCTTGC CTGCTTCTCT	240
	GTAAGTTAAT CCTTCACAGG GAGCCAAGGC TTCTCTTGAC TGCTTGGACA AGAGGGTAAG	300
	GGCCCTGGTT GCAGGATTTG CCAGTGAAGT CATCCATGTC AATAGACCAG ATCATGGCTC	360
25	CTCCCAGGTT AAATTCCTTA AGAACTGAAC CTTGnCTCCA	400
	(2) INFORMATION FOR SEQ ID NO: 2133:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2133:	
	TTCATCATAC AACATTACAC TTTGTATGAC TAAACCCAAA TTAACGATAT	50
40	(2) INFORMATION FOR SEQ ID NO: 2134:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2134:	
50	GTGGCAAGCT TTTTTAAGGT CTGACTGCCA TCGACGGATC TATGTTAACA GGTGGATCT	59
	(2) INFORMATION FOR SEQ ID NO: 2135:	
65	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2135:	
	ATCAAAGTCA TCTnCATGGT CNATCACACC ACGCTTTATA TGGTAATTCT	50
10	(2) INFORMATION FOR SEQ ID NO: 2136:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2136:	
	CGGGATCTGA GGTCGCTATC TGCAATCTGC AATCGCTATC TGCAATCTGG AG	52
	(2) INFORMATION FOR SEQ ID NO: 2137:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2137:	
	nCTCAACCAC CCACACAACA ACACAACAAG CAGCACCCAC ACACCACACA	50
35	(2) INFORMATION FOR SEQ ID NO: 2138:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2138:	
	TGTATTGTCA TTGTAGACGT GTGTAGCCAA ATCATAAGGG CATGTGATTT ACGCATCCAC	60
	CTTCTCGGTT TGTACCGCAG TACTTAG	87
50	(2) INFORMATION FOR SEQ ID NO: 2139:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid	
<i>5</i> 5	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2139:	
5	TTCACCGTTG CGCAACGTTC AAGTTTGAAG TTCGTTTGGC ATGTTGAAAT AAGCACCAGT	60
	TACACCAAAA CGCCCAG	77
	(2) INFORMATION FOR SEQ ID NO: 2140:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2140:	
	ATCTTCTAAC ATTCACTTAG TAGCGTnATT TTTCGCTTAT AATGAAATGT TAAGCATATG	60
20	CGGGATTTAT ATTITAAAGA GACCTTTAGA TACCATATAT ACCTAGGTTA TTGAAAATAT	120
	GGATACCTTA TATAAGTGAT TTGCAATA	148
25	(2) INFORMATION FOR SEQ ID NO: 2141:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2141:	
35	GCTGGCACAT AGATGATCGT CAAGTCGATC TCGCCAGTCT GAAGTCAAGA	50
	(2) INFORMATION FOR SEQ ID NO: 2142:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2142:	
	TTGTTGTAAA TACTATCACT GTACATGGGT GCTATCAAAA TATTGTCAGT TCGTAAAATA	60
50	(2) INFORMATION FOR SEQ ID NO: 2143:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2143:	
	GTAGTATATC TTATTAATTG TATCATGAAG CAATTTAAAT ATCATGACAA TTTAGTTTGA	60
10	AAAACACACT TTGTGTTGAC GTTGTGTTTT ATGGGATATA GNATAGTAAG GAATGTAAAA	120
	TGAAGGAGTG AATGC	135
	(2) INFORMATION FOR SEQ ID NO: 2144:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2144:	
25	TTTTAAGGTT TGAAGAAAAA AAGTTTTAAA AATTCAAGGA AACATTAAAT TAATTTA	57
	(2) INFORMATION FOR SEQ ID NO: 2145:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2145:	
	TTTCGAAAGT TTGATAGTCC ACCTTACATT CTCCTACTAT TTTCTGATGT CCCAATACTT	60
40	TATATTATTT AAAGTAATAT AAAAGCAATC TCTTTTGAAG ACATGTTAAC CTAAATATTT	120
40	TTATATATAA TATATATATA AAATATAn	148
	(2) INFORMATION FOR SEQ ID NO: 2146:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2146:	
55	GTTAATACAA TACGGTTAAC AGCACCTTTA CGnTAGTTGC TTTnCTGCAn	50

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2147:	
	AATCCCCTCT TTTCTCTATT TCCTAAATCA TAGAACTTTT AACAGTAAAA TTCAATCATT	60
	AATACATG	68
15	(2) INFORMATION FOR SEQ ID NO: 2148:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 92 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2148:	
	AGGTCCATTT GTAATTTATA ATGTTGACTA ATAACATCTA CAGAATTTAA CGTTCCCATA	60
	CCTCGCCACT GATTGTAAAT AAACAAACCA TA	92
30	(2) INFORMATION FOR SEQ ID NO: 2149:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2149:	,
40	ACCATCCATT AAATCAGGAT CTTCACTAAT AAGTGCTAAA TTAGCAGCGC CACGTTTAAC	60
	GTAATCCAT	69
45	(2) INFORMATION FOR SEQ ID NO: 2150:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2150:	

	TCAAAATATA TACGATCACC TTTCTGTAAA ATCACACTAT TTTTATTTGC CGCTTCTGGA	120
	TGTTGTTTAA AAAATTGTTG GCCAACTTCA CCTTTTAACG TGGCAAATTG ATAATTTCTT	180
5	GGTAGGTCAT GTTGAATTAA CCAAATGACA TAGTTATAAC AATATATACA GTTTCCATCA	240
	TAATATACGA TTGGCATAAT TTATTCGCTC CTTTAATAGT ACTTATAGTC ATTTTTCCTA	300
10	ATTTAAAAAC ATTTAAACAA GGTTGTCACT TGATAAGTCC TCGCGACACG AAATTGCCAT	360
	AAAATTTATT TTTCAGnTTn ATAT	384
	(2) INFORMATION FOR SEQ ID NO: 2151:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2151:	
25	TGTTGTTTAT CACTATATTT TAAAAATAGT CTATAAGGCT TATCAGATGA AGTAGCTGCT	60
23	GGCGTAACAC CACCAGTAAA TGT	83
	(2) INFORMATION FOR SEQ ID NO: 2152:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2152:	
40	GTATTCGTAC ATTTTTCAGC AATTAACCAA GATGGTTACA AATCATTAGA AGAAGGTCAA	60
	GCTGTTGAGT TTA	73
	(2) INFORMATION FOR SEQ ID NO: 2153:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2153:	
	CCCCCTCCC CCCTCCCCnc CCCCCCCCCC CCCCCCCCC GCCCCCCCC	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2154:	
	TATTTTAGGC TTAGCATTGA TGATGTTGCT CATTTTCAAT AATATAGGAA TTATT	55
	(2) INFORMATION FOR SEQ ID NO: 2155:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2155:	
25	ATGCTTGCTG ATATAATGTA ATAGCGTCGT GATAACGTTG CTGGCTTATA ATATACATTT	60
20	GCGAGATT	68
	(2) INFORMATION FOR SEQ ID NO: 2156:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2156:	
	TRATCTTTGT CGTCGAAATA CAAACTAACT TTTGAGTTTA ATGATGAAGG TACGCATTGT	60
40	GTATCACT	68
	(2) INFORMATION FOR SEQ ID NO: 2157:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2157:	
	TCATTCATTT TCCTCTTTTC TTTTATTTAA AATGTTCATG GTTGTTTCTC TTAATTCTGT	60
55	•	

	AGATGCTAAA TGGTCAAATT GAATAATTGT TTCTAGACTC ATTTCATAAA TTTCGAAAAA	180
_	TAATTCTTCG GGATTACGTT TTTGTATTTC TCCAAATGTT TCATAAAGCA AATCAATTTT	240
5	ATCAGCAACT GAAAGTATTT GGCCTTCTAA TGAATCATCT TTACCTTCTT GCAGTCGTTG	300
	CTTATAAACA TCTCTATATT GTAATGGAAT TTCTTCTTCA ATAAAGGTCT CTACCATTTC	360
10	TTCTTCAACT TGCGAAAATA ATTTTnnTAA TTCACTACTC	400
	(2) INFORMATION FOR SEQ ID NO: 2158:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2158:	
	TATTTTTTC TTCTAGGCAG TGTTAATACT GCTTCAATTT GTTTTTTACT AAATTGATAT	60
25	TTCTCTATGA TTGAATTAAT CAATTGATTG TCCATTTACT TAACCCACAC TTTTTCTTAA	120
25	ATTTACTCAT TTATTTTAAC ATATTCTAAA ATACTTCTAT TAAGATATGA TACTTAATGT	180
	AATTTTCACT TCCAAAACAT TTAAAACGAA TGATTAGGnC ATACTATATT nT	232
30	(2) INFORMATION FOR SEQ ID NO: 2159:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2159:	
40	CCGTTTTTCC AAAAACTTGA TCATAAACCC GCTCCTTTTT TCATCATAAC AAAATAAGAA	60
	(2) INFORMATION FOR SEQ ID NO: 2160:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2160:	
	CGATTTACTG CACGACACAT TGCCACATCC TGGATGGGCA ATCTTTTCTC TTACCCGTCT	60
55		

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2161:	
	ATTAGTTGAA GTTTTTGAGC AATTGAAAGA TATTCAGGGT CAAATAAAAA CGACAAAAAA	60
	AGAATATCAA CAGACCAACA AAGAACTTTC TGCTGTAGAT AAAGAAATTA GAAATATAGA	120
15	AAAAGACCTC ANTGATACAA AAAAAGCACA AAATGAATAC GAAGAGAAAT TGTATCAAGC	180
	ATATCGATAT ACCGAAAAAA TGAAAACACG TATTGATAGT TTGGCAACGC AAGAGGAAGA	240
	ATATACTTAT TTTTTCAATG GCGTCAAACA TATTTTGAAA GCTAAAAATA AAGAATTAAA	300
20	GGGTATTTAT GGTGCAGTTG CGGÄAATTAT TGATGTGCCA TCTAAATTAA CTCAGGCAAT	360
	TGAAACAGCA TTAGGTGCTT CATTACNACA TGTCATTGNA	400
25	(2) INFORMATION FOR SEQ ID NO: 2162: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2162:	
35	GTGCGTACCA TTGTAATCTT CGTAAACTGG GTAATTATTT TGTCTTTCTT CATCATAAAG	60
	TAATAA	66
40	(2) INFORMATION FOR SEQ ID NO: 2163: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2163:	
50	AGAATGGTAA CATGGTAATA ATAAAATATA AACAGAATAC TAGTTAATAC ACTTTATACT	60
	AGAAAAGAT AT	72
	(2) INFORMATION FOR SEQ ID NO: 2164:	

(F)

5	(A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2164:	
10	CGATAATCTG TTTTTTAAA TCTGTTGCTG TTAGATTTAG CACCGATTCG TTTAACTTCA	. 60
	AATAATTTT ATTACCTTTG GAAGAAAGTG GAACTATTGT AACTGTTTCT TTTCCTTTAT	120
	TGTCTTTGTT ATCTAATATT ACACAAAAAT GATTACCAGA AAACTCACTT CCAATATTAC	180
15	TCCCTAGTTT TACATATACC ACTGTTCCTC TACHATATGA TTTATAATAT CTTTHTTTAT	240
	TGCTTGTAAC ATCGCTATGT ATAGCAATTG GAATAAAACT CTAGCCAATG AGGCATGTnT	300
	ATAACTTTCA TGTTTTTACT GTCGG	325
20	(2) INFORMATION FOR SEQ ID NO: 2165:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2165:	
	TAAACCCCTT TTGGGTAAAA AAGTTTGGGA AAATTTCCCC GGGGGGAAAG GCCCCCAAAA	60
35	AATTGTGCCC CTCCnCGGGG GAAAATTAAA ATTTCCCCCC TTTTAAAAGG GTTTCCCCTT	120
	T	121
	(2) INFORMATION FOR SEQ ID NO: 2166:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2166:	
	CGGACAGTTA AATGAACTGT TCAATGAGCC CAGGATGTTG TAAATGGTTC GG	52
50	(2) INFORMATION FOR SEQ ID NO: 2167:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2167:	
5	ATTACAGTAA AAAATGGATT AACATTACAA GCGTGTCTTG CTAGAGCAGC CAA	53
_	(2) INFORMATION FOR SEQ ID NO: 2168:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2168:	
	AAAGATTATT TATTTGCAGT CATTAATTGT GATTTAATAC GGTCAGCTTT GTTTGAATGT	60
	ATTAAATTAC nTTGAGCAGC TTTGTCTACT AACTTAACTG CTAAGCTTAC TAAT	114
20	(2) INFORMATION FOR SEQ ID NO: 2169:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2169:	
	AAGGAACCCC CCCCCTTAA AATTTTTGGT GGTTTTAAAA AATTCCTTTG GATTTATTAC	60
	CTTTATTCCT ATMATTTTCC GTTTGGATTT TCCTGGATTA AATTTCCCCA TTAAGCCATT	120
3 5	TCCGCTTCCC TTATTTTATH ATTTTCCAAA ATTTCCAAAG GTTCCATTTG GGATTTTGGC	180
	AATCCTTTT TATTAAAATG GCCTAAAAAT TTTTT	215
40	(2) INFORMATION FOR SEQ ID NO: 2170: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2170:	
50	TATCGTTTTT AGAAATGGAT GTTCTCTCCA AAGATGATGG TATCTAACAT TATCTTATTG	60
	GTATCATTAT GCAACCNTTA CAAAACATTT ACGCAAGATG ATACATTATC CAAC	114

(1) SEQUENCE CHARACTERISTICS:

55

5	(A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2171:	
	ATCACAGATG AGATAACAGA TCCACTGTAA CTTTACAATA AATAAATGGT ATCATAATTA	60
	ACACGTAAAT GGTTTC	76
15	(2) INFORMATION FOR SEQ ID NO: 2172:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2172:	
25	ATTATCACAA AATGTTGACA CGCAAAAAGT TGGTCAGTTA TCAATATGGT ATATAAATCT	60
	GAGA	64
30	(2) INFORMATION FOR SEQ ID NO: 2173: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2173:	
40	AAAGGCCAAC CAACCAAAGG CCAAAATTAA CCGGCCAATT CCAAGGGGTT AATTAAACCC	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 2174:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(b) TOFOLOGI. IIMEGI	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2174:	

	CACCEGGAC TELECCATET THACETAGE GGCTTETTIG CATTGCCCIG GCACCICGGT	120
_	CCTCAGCCTC CCAGGCTGTA TTCATTCATT CCCTTACTGA GCACGCACCA TACACCAAGC	180
5	ACCATTCAAG GTGAACCAGT CAAATGAAGG CCTGGCTCAT TITAATGGGG GACAATGAGC	240
	ATTTTTGTTA CAATTTCATG GAGTGATGAG TGCTGTGAAG AACTAAACAG GTCAGGTGTA	300
10	AGTGGCTCAT GCCTGTAATC TCAGCACTTT GGGANGCCGA AGCAAGTGGA TCATTTAAGC	360
	CCAAGAGTCA AGACCAGCCT GGGGnnACAT AGTGAGAnTC	400
	(2) INFORMATION FOR SEQ ID NO: 2175:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2175:	
05	ATATCGTTTA AACCATCAAC AAGATTTTAT AGATGCAACT TTTACTGCGC TGAAATCAGA	60
25	TAGAGCACGT TTAAAAGAAG TGCCAGTTCA TGTTGAACTT ATAAGTTATA TTTCTAAATC	120
	AAAATAAACT GCTATCTAAA ACGCAAAGTT GATCAAAATA TCGATTTTGT GTTTTTTATT	180
30	GAGAAATTAT ATAGGAGTGT CAATCGATGA TITATTGTGA ACAGAGCGTT TAATATTAAG	240
	AGACTGGCAT GAAGATGATC TGTTACCTTT TCAAAAAATG AATGCGAATT ATGACGTACG	300
	TAAATATTTT CCAAGTTTAT TGAGTTANCG NCGTTCAGAA TTAGATATGA GACCTATGGA	360
35	TGCGGTTATn AAAGATTATG GCCATTGGGA TTATTGCCnG	400
	(2) INFORMATION FOR SEQ ID NO: 2176:	
40 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2176:	
	TAAATCAAGG AAAGACATTT TAAGGTACGA AGGTTGATAA CAAAAAACCA ACAGATTTAG	60
50	GGGTATCAGA G	71
	(2) INFORMATION FOR SEQ ID NO: 2177:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2177:	
	GTTGAATTAG GCAGCACGAT TATTGATGCT GAACTGTTAG AGTCAGATAA G	51
10	(2) INFORMATION FOR SEQ ID NO: 2178:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2178:	
	TTAATTAATG GTATTTACAT ATTCATAACC AAAGGATAAA ATAATTGTGA AATTATTCAC	60
	A	61
25	(2) INFORMATION FOR SEQ ID NO: 2179:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2179: CATTTTACCA TGCAGCAAAT AATACAGGTG GTGCCGTTAA CAAACGTGAN	50
	(2) INFORMATION FOR SEQ ID NO: 2180:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2180:	
	GCCGAACGAA TCAAATACCA TACCTAATTG ACTGCAGGCA TGTCCATATA GTGCAGTTAA	. 60
50	CTGTCTACAA GGC	73
	(2) INFORMATION FOR SEQ ID NO: 2181:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

-		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2181:	
	TACTITIGGC GATATICGGT ATCGTTATTA CAGTTATTIT ATATGCAATT AAATTGCCGG	60
10	GTTCTATCTT TATCGGTATG ATCATCACAG CAATCGTTGG TATGTTCACT GGATTGATTC	120
	AAATGCCATC TGGTATTGTG GGTAAGATTC CAAGTATTGA ACCAACGTTC GGTGCTGCAT	180
	TTGAAGCGTT TAAAGACCCA AGTCAATTAT TAACGATACA GTTCTTAATT GTTATTTTAA	240
15	CGTTCTTATT TATTGATTC TITGATACAG CTGGAACATT AGAAGCGGTT GCAnCnCAnG	300
	c	301
20	(2) INFORMATION FOR SEQ ID NO: 2182:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2182:	
30	TTGATTCGCC TTGGCCAGAA TTACTTTTGT TTTGGGCGTC ATTGCAAGTT TCTA	54
	(2) INFORMATION FOR SEQ ID NO: 2183:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 118 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2183:	
	TTAGTHACAT TGGGACATTT AACTGATCCA CCAGTACTTT TGGCGATATT CGGTATCGTT	60
45	ATTACGTTAT TATTGCATAA TGCGGTCACT ACGAGACACC GCACTGAGTC CGATATCA	118
	(2) INFORMATION FOR SEQ ID NO: 2184:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 303 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	AGATAGTTAT ATAAAGATTT CATCTTCTGT ATTACATTGA TATTTTTAGG TCCCTGTATA	, 60
	TAAAAATCAT ATGCCTCATC AACAACATCA CTTTTATTTT TGATTGCAAT TTGATGTAAT	120
5	ATCTTTTGAC TAAAAACACG ATTAATCATA TTTCTATTAT CCATAGCTAC GCACCTCCTT	180
	CAACATACAT TTAATGCTTA TCCTGTTAAT ATTATAAnCn ATTTTAAATG CCTATAGACA	240
10	TTATTTCTAT ACACATACGA TTATHAAATT GTATTGAAAC CAAATGATGG TTGCCAAACA	300
	CAT	303
	(2) INFORMATION FOR SEQ ID NO: 2185:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2185:	
25	CCGGGGTTTT GGTTAAACCC TCCCAAnATT TTTTTTAAGC CCAAACCTTG GAAAAACCCA	60
23	GGCCACCCGT TGGAATTTTT AAGCCTTGGA TTAATCCGGT TTGGTTAACC	110
	(2) INFORMATION FOR SEQ ID NO: 2186:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>3</i> 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2186:	
40	CCTATATTGT CACCCAACTT CATTACGGCA CCTTTACCGA AAGATTTCTC CATATTTTTA	60
	ATTACTGTAT CTAAAGCTTT TTGACG	86
	(2) INFORMATION FOR SEQ ID NO: 2187:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2187:	
55	TTTGCTAGAA AACATACCAC ATTTGCCAAT TATATTATTT ATTCTGATGT TTATTTTCGG	60

	TATTTAGAGG TGATAAAATT TGTCAACTAT TACAAAGACT AAAATAAAAA TCTTTATTAA	180
	TTATTTATT GGTATATTAG CCTTGGCGTT TGCTGCTTAT ATATTATTTA AATAAAGGTT	240
5	AGAGTGAAAC GTGTTTATGA ACTAGACGTT CTAGTATAGT TACTACAGCT TTAGTCAGAA	300
	GGTATCATTG ATAAGATCAT ATTAAATCAA AGAGGCATTG ATATACACTA AAAAGAGGCA	360
	AGATTACCTG CCTCTTTTTA GTnATTAAAT ATACGTGTTA	400
10	(2) INFORMATION FOR SEQ ID NO: 2188:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2188:	
	TTTTATAAAA TATCAGACAT TTTTGnTCAA CATACATCTC TTTCGATGTT TCTAATACTT	60
	TATCATTAAC CATTACACCT TAAAGTTATG ATGTGGCATG TTTTCTTATA TTCATAACAT	120
25	CAATTTTATC A	131
	(2) INFORMATION FOR SEQ ID NO: 2189:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2189:	
	CGTAAAATAT TTTGATTTAA AATGGAGGGT ATTAATATGA AAAGGTTCAT GTAAAATCTA	60
40	GGGGTATTCC AATATTATAA GGCAC	85
	(2) INFORMATION FOR SEQ ID NO: 2190:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2190:	-
	CCCGAGGAAT ACATGGCATT AAATACACGT TTAATATTTA TAAAGGTGAC TTAATTTTGT	60
55		

	ATAATTGTTT ATCAGTGATA AAATATTTGC AATAAGAAGA GAATGACTAA ATAATCTTAA	180
	TTTTCAGANA AGTAATTGTA ACCTTACTGG TCTTATGGTA ATAN	224
5	(2) INFORMATION FOR SEQ ID NO: 2191:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2191:	
	AGCTTTTGTA GTTTTCTTAA GCACACCGGC GATTTGATTA TTACATAAAG GATTCCCTTT	60
	TTTTGTTGTG AATATGAACC CTCTGTCAAC ATAGCTCGAA TTCCATCTTT TCAACATTTT	120
20	GTTTTCCAGT ATTATCTTTT TAAAAATTTC TACGGTTCTA GAATTGATGC TGATACTTCT	180
	TTTTGAACTT ATAGTCTTTG TAGTGTCTTT GTATCCGAAT CCTTTCTCGT ATTTAATGCG	240
	GTGAATTGTA CCTGTTATAT TGATAGTnTT GTTTAATAAA TCTATATCTT TTTCCTGCAG	300
25	TGCTTGTAGT TCTCCTATGC GCATACCAGT TAAAGCCTGT ACTTCTAAGA TGCTGGCAAT	360
	TAAAATGCGA TTTCGCTTTT GTAACTTATT ATCATTTAGT	400
30 	(2) INFORMATION FOR SEQ ID NO: 2192: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2192:	
40	GACGACTGAG AGGCCGTTGA ATTTGACGTT GCCATATnTT CAAATTTAAC	50
	(2) INFORMATION FOR SEQ ID NO: 2193:	
4 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2193:	
	GTTGTTTTCA TATCAAAACA CCGTAGAATA AACAATGAAT GGAATTACTT TTGCAATGAT	60
EE		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2194:	
10	CCAGTCACTG ACTACGTCTT CCTCGGTGCT GGCGGTGGAG CCATTCCCTT ATTACC	56
	(2) INFORMATION FOR SEQ ID NO: 2195:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2195:	
	GTAGGGAAAG GAAAAACTGC TTCCATTGGG AAATGTTAAA CCTTGTTCCT TGGTGATGCC	60
25	ATTGGATTT	69
	(2) INFORMATION FOR SEQ ID NO: 2196:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2196:	***
	ATATGACACT ATATTTTATA AACATACATT TAATGATTCA TTATACAATT GCCAA	55
40	(2) INFORMATION FOR SEQ ID NO: 2197:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2197:	
	GCCCTAGTTC AATCATATAA CCATCTTTAC GATACGATTG AATCTTTCCC CCCGGACGAT	60
	TCGATGCTTC A	71

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2198: AGTAGCACAA CAGCCATGCG GAGACAGAGA ATCGTTAGAG ATTAATGGAG ATCA	54
	(2) INFORMATION FOR SEQ ID NO: 2199:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2199:	
	GGCGGTTTTA TATTTATCGT TGCAGTTATG CAAATTGTAC TTGGTAGAAG TATAGATTCT	60
25	CGTGATTCGA AAAAAGTACT TTTAACGGGA TTGGGAATAG TAATCATATC TAGCTTTATT	120
	TGTGCAGTGA CACATAACTT TATATTATTT GCTATATCAA GGTTATTTCA AGCAATTGGT	180
	TGCGGAATTA TTCCTCTCGT GACTTTAACT TTATTAGCCA AACTAAGTAC AGATAATGGT	240
30	AGAGCTCAAG CTATGGCGAA CTATCAAATA TTTTTATCAT GTGCACCAGC TTTGGCACCA	-
		300
	ATCTTAGGGA GTACTTTAGG TGGCAAGATG GGGATATATT GGTATTTTAG TTTTTTGGCT	360
35	CGTTATATCT ATCGGTATTA TTTTTGGATA nCTnTnTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 2200:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2200:	
	GGATATGCGA TGGATGACGC ATTGCTATAT CGGCAATTGn GAAGCTGCTG	50
6 0	(2) INFORMATION FOR SEQ ID NO: 2201:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2201:	
	ATCGAATATC ACTACTATCT CTnTTnAAGT ATCTACAATC TCTCCAATCT	50
5	(2) INFORMATION FOR SEQ ID NO: 2202:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2202:	
	TCGACAATCC TAATGCAATT GCTTCATGTG GnTGTGGTAG TTCATATTAG AACTGCAAAA	60
	GTTGCAGGTG ATCCTGAAAA TTGCTAATAA AATAACTTTT TAATGGTTAA CCCAATTTTT	120
20	GGGATACAAA TTGATATCAA TAACGATTAA GGACATATTT GATTATGTCC TATTTTTGCG	180
	TAAAGATATT TTGTTTTATT AAAAAGCTTA TTGAAAATTA AGAATCTGAC TATAAATAGT	240
	ATTTTAAATG ATCGTGATAG CGGATACATT TTTAATCGAA ATCAGGCTAC GAAAAAATTA	300
25	ATTAATTTT TCACAATCTG ACTGAATCTT GCTTGAAAAT ATAACATAAA AGCTATAGAA	360
	TTAGTATTGG ATTAAAAATG TCTTTTTGT GAACATCACA	400
30	(2) INFORMATION FOR SEQ ID NO: 2203:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2203:	
40	GCGTTGTCCT TTTCGTGACA TGAAACAATG TGGAAAACAT AATTAAATnn AGGGAAAGTG	60
	TGAATAGTTA AAAAATTAGT ATTGTGTTAT AAAAAATAAT TAATACTGTT AGGATTTCAT	120
	TAACTAACTT AACGTTGGTT CAAAAATAGT TAAAAAGAGG TTAATTCATA GCGCAGTATC	180
45	TCACTTATAT AATGATAGTA GATTGTTCGT ATTACGTAAT TGAATTAATC ATATAAAAAT	240
	ATATTAAGAC AAATTTATAA ATAGATTGGG AGANTAGTAC TGTGAAATTA AAAACGTTAG	300
50	CTAAAGCAAC ATTGGCATTA GGCTTATTAA CTACTGGTGT GATTACATCA GAAGGCCAAG	360
	CAGTTCAAGC AAAAGAAAAG CAAGAGGGIG TACCACCATT	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2204:	
10	GTTATTTTGT ATGGTTAGTC TTTAAAATAN ATATAGATAT TAAATATTTA TTTTACGAAT	60
	TGTTAAGTAA AGAAAAATA TTAATCAATC CGGGTTACAT TTATGGCAGT AAAGAAAAGA	120
15	GTATAAGGCT ATCTTT	136
	(2) INFORMATION FOR SEQ ID NO: 2205:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2205:	
	TTTTATTTTT TCGCAATGAA AAACAATCTT TCTGCATCTT CATTATGTTC ATCTATATTA	60
	AAATCAGTAA ATGTTTCAAC ATGTTTAAAA CCAACTTGAG CTAACCAAGA CAAATATGTC	120
30	TTTTCATCAA ATGTTCTCTG AAAATGAGAC TCATCAAATC TTGAATATGT TTCATCTTCA	180
	TGTCGAATGA AAAATGTCAT ATCATGATAA ACACTTAAAG GTAAATCTCC TTGCACAGCA	240
35	TCCCATGCTA AAAAAATGTC CCCTTTATCA TCAATATAAC TTTGATTATT AAACAAAGTC	300
.	ATCATTTTAT AAACAGTATG TACATCAGAA ATAAATACAC CTGAATCAGT CAGATGATGA	360
	TAAACATTGA TGAATGTTTC AATCACTGCA GTTTCATCTT	400
40	(2) INFORMATION FOR SEQ ID NO: 2206:	
4 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2206:	
50	TTGAATATCA TATAAAAACA TCAGGTTCAA AGTTGACTAC TCTTAATAAT ATAAAAATAA	60
	GAATTAAAAA CATTAAACGA TACTGCTCTG AGAACTTGCT TTTAAACAAA CTTGATACAA	120

	GTCAACTCGG AGATATGAAA GGAGCNATTA AATATGCAGT TAAATTTTAC AATTATCCAA	240
	ATGAATATTT GTTAACTAAT GTCAAAATTC CTAAAAGAAG AnAAACAATA GAGGATATCG	300
5	AAAAAGATGA ATCTAAAATG GTACCACTAT TTAGAAATGG AACCAAGTCC TACNGATACG	360
	TGATCATATA CTAATGGAT	379
	(2) INFORMATION FOR SEQ ID NO: 2207:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
75		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2207:	
20	CATCTTGGGA CGTTTTAAAA AGTAACGTAG CGAAGACTAT TGGAACAACA ATGAGAACCA	60
	ATGCTAGAAG GATCAAAAAG TATTTTAAAA ATTTATTCAT GATTGATGCT CCTATATTAA	120
	ATTINIGITA AATCATA	137
25	(2) INFORMATION FOR SEQ ID NO: 2208:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2208:	
35	GCGCCGCTCT GTTCATTTTA CCTAAATCCA ACGTTTCAGG AATAGATGTT TTCAAACCAC	60
	TTTGAAATGG AT	72
40	(2) INFORMATION FOR SEQ ID NO: 2209:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	,
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2209:	
50	ATGTAGCAAC TAAAGATGAT AGTGGATAGC GACACGGTCA ATAAACTGCC TA	52
	(2) INFORMATION FOR SEQ ID NO: 2210:	

5	(A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2210:	
10	TTTTTTATGT TCTTTTTAA TAAGAGGGAA GTGAAGTTGT ATAAAAATGT ATTAAATATG	60
	CACTITITAT ACATTAACGA TICATATATG TCTATTATGT ACCAAATTTA TAATTTGTAT	120
	AATTTTCGAA CTGGTTAAAT TCGAAAAATA TCACTAATAT ATnTAGATCG ATGTGTAACA	180
15	TTACGTTCTA nTAATTTAAT GTTGCA	206
	(2) INFORMATION FOR SEQ ID NO: 2211:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2211:	
	ACGATGTATT TTGATATCGT TACCAAAGTC TTTTAATAAC TCATTTTCAT CTAAATAAAT	60
30	(2) INFORMATION FOR SEQ ID NO: 2212:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2212:	
40	TGATAAGGTT TGTCCCATCG CTATTTGAAA TGATGCATTG TAAAAAACTA TCATTTGTTG	60
	GTAATATCTT AGTTCGATGA CTTTCTTTCC AATCTTTCCG TGTCATAGAG ACAAGATTTT	120
45	TTGTAGCTAT CITAGTTGCT TCTTGAATGT TCATTTGTTA TICCTCCTTT TAAGATGTTT	180
	GTnTTTCTTT AAATGCTAAA ATAATTGATT TCTTTTTATC ATTCGTGAAT ACGAAATTTT	240
	CGTATTCATT ACCTAAAAAA ATATCATCAT ATTTAACATT AAAAGCACTC ATATACTTAG	300
<i>50</i>	AAAGTAAACT AACnTTAATG GnTGTAGAGT C	331
	(2) INFORMATION FOR SEQ ID NO: 2213:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2213:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2213.	
	AGCATAAACC AAAAGATGCG GATATACTTG AACGCGTCAA AGATATACTT AATAAAAAAG	60
10	A	61
	(2) INFORMATION FOR SEQ ID NO: 2214:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2214:	
	TCTATTTGAG TTTACATTTG ATTAAATGAA TGACAATTAT ATGAACCTGA CTTGGT	56
		30
25	(2) INFORMATION FOR SEQ ID NO: 2215:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2215:	
35	ATACCACTAC TATACAGTTA AATTAATATA CGTTAAAACT TTAATCCGAT ACATTGGTTA	60
	AAATGATGTT CCTCGCTGGT GGATCGAGAC ATACTTCGCT CTGACTTCTT TAGTCAGTTT	120
	TTTTCAGCT TTTTAGGTGT AATCACTGAC TTTGTTACAT CACGTCAAAT TTACAGTCGC	180
40	TATTATCTTA ACTTATCAAC GCTTATCACA CATCAATTCA GATATTATAT TGCATTGGCG	240
	NCTATCACTT TGAACCTGCT GTGACTGGAA CTACTGGCTG TCANGAGCGA GGGCTGATAA	300
	TGAGCATAAA GCAACATATA AGTAATACGG CCGAATATGT AAATTCGGCA GCTTTAGGCA	360
45	ATGCTGCCCG GGCATGACTA GNACATTCAC AAGAAGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 2216:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2178

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2216:	
	TTTTTAAAAA AGGGGTTAAC CAAAGTTTTG GAACCCCAAA AAATTCCGGA GTTAAAAAAA	60
5	CCCCAAAAAA TTAAATTAAC CGGTTATTCC GTTCCAGGAG CCAAATTTTT ATGGTTCCAA	120
	TTnCCAAAGT GGG	133
	(2) INFORMATION FOR SEQ ID NO: 2217:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2217:	
20	TACTCGTACC ATTAACCAGT CTGATTAACC ACAATACTAA GGTATTCAAT ACATCACTGA	60
	CATC	64
	(2) INFORMATION FOR SEQ ID NO: 2218:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2218:	
	TATTCTATAG AATATGGATA ACGTTTAACA TGATGTAGAG TATTCATCAT TGTAACACGT	60
35	CAATTTGATA TGTGAGATTA AC	82
	(2) INFORMATION FOR SEQ ID NO: 2219:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2219:	-
	TTTGACGCAA TGATTTAGCT GTAAATATGC AATCTAAAGG AAAGTACCAC TTATGAGATG	60
50	TATTAAAACG	70
	(2) INFORMATION FOR SEQ ID NO: 2220:	

5	(A) LENGTH: 66 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2220:	
10	AAAAATTACC CCAAAGAATT GAAAATTTGT TGTTTGGGTT ACCGGGTTTA AGATTAATCC	60
	GGTTGA	66
	(2) INFORMATION FOR SEQ ID NO: 2221:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2221:	
	GATCGCAACC AAAATAATGG TCTTCCTGGA TTATTACTTT ACCAGCTGGC ATAC	54
25	(2) INFORMATION FOR SEQ ID NO: 2222:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2222:	
	GTGTTGCTAC AGCTANCATT TCATATTTAA CGNGTTGTGG TATTTCTAAA	50
40	(2) INFORMATION FOR SEQ ID NO: 2223: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2223:	
	AATGGGGGNA CCCAGCNTGA GTTATGTCAT CATATCGGTA TGTGATACAT	50
50	(2) INFORMATION FOR SEQ ID NO: 2224:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(wi) SECUENCE DESCRIPTION, SEC ID NO. 2224	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2224:	
	GTAGATGCGC CCTCATATGG ACAAAGATAA AGTATCAGCA GATTGGACGC TTTA	54
10	(2) INFORMATION FOR SEQ ID NO: 2225:	∴
 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2225:	
20	CGAGACTTCA CTTTGACTAA ACGCGTTAAG AATTTAGATT ATGCTTACGA TGAAGAAGAA	60
	TTA	63
	(2) INFORMATION FOR SEQ ID NO: 2226:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(b) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2226:	
35	TGGCCATTTT TAATGGGGGG AAACCTTAAA AAGGGGTTTT TAATTTTAAA CCAAG	55
	(2) INFORMATION FOR SEQ ID NO: 2227:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2227:	
	TCCATTTGGT TGCCTTCTTT AAATAAACCT TGGATTATGC CTTTCCTCCG GTTAATTAAT	60
	GGGACCAGGG GCCAAAAATA CCCCCTTTTA AATATANATT CCCAAAAATCC ATAGTTAAAT	120
50	AATCCATTTG C	131
	(2) INFORMATION FOR SEQ ID NO: 2228:	

5	(A) LENGTH: 350 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2228:	
10	CCATCTGTGC TTCGTTAGGC GCTTTCGGCA TCACGGTGAT GGTTTGCGAC AGATCCGCCA	6
	TCCGGCTGAA TGGGAAGCCC GCGTTANAAA GGCGCGTAGA TCCGGCATCG GGATGAAGTG	12
	GTAATACTTC GAGAAGTCGA TGGTGGAGTC GTCACCAATC ACCACATGAT TCTGCACCGG	18
15	CTGGAAGGTA ATACAGTTAT CCACCGAACC GCCCGGCATC GGGTTCATAT ACTCAAAGTC	24
	GAAGCGCACT GGNTTTGGTC GCGCCCAGTT TCAGCGCCGG AATAGAGACA TCTGTTTTGC	30
	CATCCAGCAA ACCTTGTAAT ACCGGAnTCC GCAGCAGCAG GCGGTTTCGC	35
20	(2) INFORMATION FOR SEQ ID NO: 2229:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2229:	
	AACTAAAAAT ACTATATAAA AAAGGTTGTT ATAATTTAAT GGATATAAAT AAAAACGA	58
	(2) INFORMATION FOR SEQ ID NO: 2230:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2230:	
45	GGGCGAAAGC TGGACGGAGC CAACGTCGCG TGAGTGGATG GAAGGTTCTT	50
	(2) INFORMATION FOR SEQ ID NO: 2231:	
50 _.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGCCATACGT GGTAAGCACA TGCTAAATTT GCCAGCCTGA AAATGTTTAG	50
	(2) INFORMATION FOR SEQ ID NO: 2232:	
δ	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2232:	
15	TGTATCATTT TGGCAAAATC ATAATCTTTA TCGTCGAATA CAACTACTTT TAAGTTTAAT	60
	GATGAAGGTA CGCATTGTGT AATCACTTCA TCTAACTTTT TTAAATCAGG TGTCATAGTT	120
	GAACTTGGnG GT	132
20	(2) INFORMATION FOR SEQ ID NO: 2233:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30 ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2233: GATCTTGAAG CAGTTGAAAC ATATGTATCA GATGCATTAA GACAAGTACA CTTACAATCA	60
	GACATTTTTG CTGTATCA	78
35	(2) INFORMATION FOR SEQ ID NO: 2234: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2234:	
45	TTTAGGCACA GACGGTAATA AGCTACAATT TTCATAAAAT CATCTCCTTn	50
	(2) INFORMATION FOR SEQ ID NO: 2235:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2235:	
	ATCCTGGAAA ATCTGGTAAG ATATCTTGGA AATAACTAAT ACCAATTCCT AAAA	54
5	(2) INFORMATION FOR SEQ ID NO: 2236:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2236:	
	GGGTGATGGT CATTGACAAA GTCAACTTGT GATAAGCCAT GGATATTTTT CGTT	54
	(2) INFORMATION FOR SEQ ID NO: 2237:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2237:	
30	TTATTTACTT TAAATTTCTC AATCTACAGT GTAATCTTAT TTCTTATTAT	50
50	(2) INFORMATION FOR SEQ ID NO: 2238:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2238:	
	CCTTAATGGG TFTTGGGGGG GGGCCCCCC GGCCCAAAAC CTTTGGCCCA ATTGGTTCCT	60
	GGGTTAAGGA AAAA	74
45	(2) INFORMATION FOR SEQ ID NO: 2239:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

TAGCACCOTG T (2) INFORMATION FOR SEQ ID NO: 2240: (i) SEQUENCE CHARACTERISTICS: (a) LENGTH: 64 base pairs (b) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2240: CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG TTTG (2) INFORMATION FOR SEQ ID NO: 2241: (i) SEQUENCE CHARACTERISTICS: (a) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (a) LENGTH: 50 base pairs (b) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (a) LENGTH: 50 base pairs (b) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (a) LENGTH: 71 base pairs (b) TYPE: nucleic acid (C) STRANDENDESS: double (D) TOPOLOGY: linear		CCACCCATGG CGCTTGACAA AATATGGATG GAACATAACC ACACCGTCCA AGTTCACTGT	60
(2) INFORMATION FOR SEQ ID NO: 2240: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2240: CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG TTTG (2) INFORMATION FOR SEQ ID NO: 2241: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TAGCACCGTG T	71
(A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2240: CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG TTTG (2) INFORMATION FOR SEQ ID NO: 2241: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	5	(2) INFORMATION FOR SEQ ID NO: 2240:	
CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG TTTG (2) INFORMATION FOR SEQ ID NO: 2241: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	10	(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
(2) INFORMATION FOR SEQ ID NO: 2241: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2240:	
(2) INFORMATION FOR SEQ ID NO: 2241: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: (2) INFORMATION FOR SEQ ID NO: 2242: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double		CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TTTG	64
(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20	(2) INFORMATION FOR SEQ ID NO: 2241:	
CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS:	25	(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG (2) INFORMATION FOR SEQ ID NO: 2242: (i) SEQUENCE CHARACTERISTICS:		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30	CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG	58
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242: GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA 45 (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid 60 (C) STRANDEDNESS: double	35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA 45 (2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid 60 (C) STRANDEDNESS: double	40		
(2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242:	
(2) INFORMATION FOR SEQ ID NO: 2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA	50
(A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45	(2) INFORMATION FOR SEQ ID NO: 2243:	
	50	(A) LENGTH: 71 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	AAATTTGGAT TGGTTGGAAA TTTACAGTTA AAATTTAAAG GGTGGATGGA AAAATTTTAG	60
	GAACTTCTAA G	71
5	(2) INFORMATION FOR SEQ ID NO: 2244:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2244:	
	GGGGGCCCCT TGGGGGTTTG GGTTTTGGGG GGCCCCCCTT TTAAAAANTT	50
	(2) INFORMATION FOR SEQ ID NO: 2245:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2245:	
•	TTATAATITT TGAAAATAGA AGAGGGAAGC CTTAAATTAC CAAATGGATT TA	52
30	(2) INFORMATION FOR SEQ ID NO: 2246:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2246:	
40	ATTAGTTGAA AAGTACAATA TTCCGCAAGT TACCAATCGA TACAGGTATT ACAAG	55
	(2) INFORMATION FOR SEQ ID NO: 2247:	33
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2247:	
5 5		

	(2) INFORMATION FOR SEQ ID NO: 2248:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2248:	
	GGGAAGGTAA AACTTCCTGC TTTTTTTATA AGTATTCATA CTCTATTGCT ATATTAGTAG	60
15	AAACCGTAAA ATCAGTCATT CACATACATT nTGAAACATC TAAATAG	107
	(2) INFORMATION FOR SEQ ID NO: 2249:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249:	
:	GTTGGATACC TGMAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC	60
	ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG	120
30	GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA	168
	(2) INFORMATION FOR SEQ ID NO: 2250:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250:	
	TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG	50
45	(2) INFORMATION FOR SEQ ID NO: 2251:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	GCAGAACATA CCACGTGTCG CTGATTACCA ATACAGTAGA TCAAGATGGA CTCGATTGC	59
	(2) INFORMATION FOR SEQ ID NO: 2252:	
δ	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2252:	
15	GTTTGTGTTT TAATTTTAAG GGGAAGGGAT TTTTTTACCA AATGGGAATT TT	52
	(2) INFORMATION FOR SEQ ID NO: 2253:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2253:	
	AGTGTAATTA GAAAGGCAAG TACACCTGTT TAAAGTTTAT CTTCTAAGAT TTGTTTACTT	60
30	TAGAACTATA GCAGTTAATC	80
	(2) INFORMATION FOR SEQ ID NO: 2254:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
-	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2254:	
	GTAAATGACA GAGGAAATAT AACAATGATT AATAATGTTA CAGCATTTAC TGCAAATATC	60
		66
45	TACTAT	00
	(2) INFORMATION FOR SEQ ID NO: 2255:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ACATGIGITA ACTOTITGGO AATATATOOT GITTOITOIT CIAATTOACG	50
5	(2) INFORMATION FOR SEQ ID NO: 2256:	
8	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2256:	
15	AATCITTTAT AGGAAAGAAA GAAGAAGATG TTATCAGTTG CGATTATCGG CCCAGGCGCT	60
	GTCGGTACA	69
20	(2) INFORMATION FOR SEQ ID NO: 2257:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2257:	
30	TAGCGGGAGA TAGAAAAACC ATTCCGCATT AGCTTTGGTC AAGTTGGGAA TGGGTAAAAA	60
	AATA	64
35	(2) INFORMATION FOR SEQ ID NO: 2258:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2258:	
45	GGTTAAGGTA TGGCGAAATA TCTCCAACAA CACTTCAAAA GGTTCAAGAA AATAGAAGTC	60
	GACTGAACAA TGTCATTCAC ATGTGTGCGT CATGCACACC nTATGT	106
50	(2) INFORMATION FOR SEQ ID NO: 2259:	
80	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2259:	
	CGGAATAACT GACTATGTAT CATTTGATGT TATTAACATC AATATTTTTG GTTAAATGAT	60
5	ATGCTAGAAA TAAAGCATA	79
	(2) INFORMATION FOR SEQ ID NO: 2260:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2260:	
	GCTGGnTGTT AntgGCAGAG CATGTGAGCT GGATAATCAG TTGGAGAGGC	50
20	(2) INFORMATION FOR SEQ ID NO: 2261:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2261: nCCATTAATG ACCGAGATTA GTGAGCATGC ACAAATTGTT ATGGTAGGAT	50
	(2) INFORMATION FOR SEQ ID NO: 2262:	50
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2262:	
45	AATGAACCAC ATAATGACAA CTTGAATGAC AATATGAATA TGATGTCAAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2263:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid	

	CATTAGGIGC TIATATAAAT TACTITGIGG TGGCTCCAAA ACTTCGGGTT AAAAC	55
5	(2) INFORMATION FOR SEQ ID NO: 2264:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2264:	
15	TTTCmTCCCC CCCCGGGGT TTTTTGGTCC CTTTTTTTT TTAAATTTCC	50
	(2) INFORMATION FOR SEQ ID NO: 2265:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2265:	
	TCATTCATAG AGGTGTAAAG ACATAAGGGG AGCTTAACTG CGAGGACCTA CA	52
30	(2) INFORMATION FOR SEQ ID NO: 2266:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2266:	
	AGATGATGCA ATAATGGTGC AGTATAGAAG TACTGAGCAA TGCAAATTTT AGACG	55
	(2) INFORMATION FOR SEQ ID NO: 2267:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2267:	
55	GTTCATCACA TTTATTACAT TCAGCGTTGG AATCAGTACT GGGTTATCAT G	51

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2268:	
	CTGTTGACAA CAAATTAAAA ATGACAACAT GTCGTAGTTA TAGTTAATTG ATTG	54
	(2) INFORMATION FOR SEQ ID NO: 2269:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(3) 33332331 22333	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2269:	
	AACCAAAAAG AAAGCAAGGT CAAGGAAATT TCAGCGNGAC GTATCTTTAG TTTTGAATAA	60
25	•	120
	GCATATTAAT ATGGTGATAA TATGCAAGAN AACCTGTTTA TTCGATTCAA TGAAATTATA	
	TTATTAATAT ACTTAATCAG TATCATTTGC TATTTTTATG ATTTTGTACA AAAAAGTCAT	180
30	AAGATTAGAA GTTTAGGCAT ATATTTATTG GGGATTGTTT GGGTTTTACA AACAATCTCT	240
	TTATCTATTT TTATTATACA AACTAGACAT ATTCCATTAG GGnCTATTTC AGATGTATTC	300
05	TATACTTTAA GT	312
35	(2) INFORMATION FOR SEQ ID NO: 2270:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2270:	
	GTTGATGGAT TCTCTTGGTT TGGTGTAGTC ACAATTTCTG AACTGGCCCT TGTTTACG	58
	(2) INFORMATION FOR SEQ ID NO: 2271:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
55	•=•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2271:	
5	CGTTCAGACG CTAAATCAGG CACCAGGTTG TACAATTGTC CTGGTTCTTC	50
Ü	(2) INFORMATION FOR SEQ ID NO: 2272:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2272:	
	CAGGTGTTGG TAAAACATTT GAGATGCTTT CAAATGCCAT TGAACTATTT CAAAGTAA	58
20	(2) INFORMATION FOR SEQ ID NO: 2273:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2273:	
30	TTATAAATTG GTGTAACAAT TTCATACACA TGATCATTCT TTGATTGAGG TAAAAATGAT	60
	TCTACTAAAC GTACACGTTT ATGCTTCTTA TATTCTTTCA TCAATAAATA TCTATGATTA	120
35	GCTAATGATA AATTTAGTAG AAGCTTGTTA TCTCCATAAA CTAAATTCAC GATATTAGGT	180
	ATATTGAATT GTTCTTGATA TTTCAAAAAT TGTTGATCCC ATTCTTCATT TTTAGGTAAA	240
	GGTAATACCA TCTCGTTAAT TTTCCAATAT GCTGGTTTAA GAATGACATT TTTATATCTG	300
40	ATTCGTGGTG AATAACTAAA TGAATCAATA CTCACATCAT TCATAGGTTC AATGCATTTC	360
	ACAGATTCCA TTGAAATTTC TCGTAACAAT CGATATNAAT	400
	(2) INFORMATION FOR SEQ ID NO: 2274:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>50</i>	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2274:	
55	GGGTACAAAT TTGTnGATGA TAGAAAAGTT CGTATCGCTA GAAAGTCTGG	50

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2275:	
	TGATTTACCA GTTGATTACG ACAAAGAAGA ATTTTCAAGA ATTGTTGAAG CATCAAAACG	60
	CATTA	65
15	(2) INFORMATION FOR SEQ ID NO: 2276:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2276:	
	ATGGCGTTCC ACCAGCAGTC AATAATCCTG TTGGGATAAA TGCCAATACT GTCGA	55
	(2) INFORMATION FOR SEQ ID NO: 2277:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2277:	
40	TAATAAATCA CGTGCATTTA CGCTCACTAG CTTTCATCTC CTCATTTTTG CTTTTCAAAT	60
	TTATTAAGTA TGAATA	76
	(2) INFORMATION FOR SEQ ID NO: 2278:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2278:	
55	GTGGCTTTGT CTGTGTTATT GTAGTTTTGT TTCGCTGCGT CCAGCTTTGC TGCTTTTCCC	60

	(2) INFORMATION FOR SEQ ID NO: 2279:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2279:	
	TTAAGTGCCA AAGTCCTTGG TAGCCAGAAT GAACCACCAA CCTCCATTTT TCCAAAAATG	60
15	GTCTTACCT	69
	(2) INFORMATION FOR SEQ ID NO: 2280:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2280:	
	GGATGGAATT GGGTTAAGAA TAAAAAAGGT AATAATTGAG TTTATGATAA TAATAATAAT	60
30	ATTGAGA	67
	(2) INFORMATION FOR SEQ ID NO: 2281:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2281:	
	TTGTTACTTC GGCACGGATA AATCCACGTT CAAAATCAGT ATGAATGATA CCAGCACATT	60
45	GAGGTGCAGT CATACC	76
	(2) INFORMATION FOR SEQ ID NO: 2282:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AACCCAGAAG ACTTATTATT AGAATCTTAA TCCACAACAC AAAATAGTTT ACTATTCCTA	60
_	AAAGCGGGAT TAAATCAATA ACAAACAGCA GTAAGATTAT TTCCTAGTCG AAATATCTTA	120
5	CTGCTGTACT TTATTTn	137
	(2) INFORMATION FOR SEQ ID NO: 2283:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2283:	
	ACAAAGATTT ACTATTTAAC TAATTTATAT GAAGAATAGC TTTCCCTAAT AA	52
20	(2) INFORMATION FOR SEQ ID NO: 2284:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2284:	
	ACTCCTGCAT ATCACAACTA GATTAAATAT ACATCAAACA GATATAGTAA A	. 51
35	(2) INFORMATION FOR SEQ ID NO: 2285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2285:	
45	CTAACATGTG TGAACGATAT GCAAATTCAA TATCTCATTC ACGCTTTGCA CTTTATTACT	60
	ACAATCAACG TAACTAT	77
	(2) INFORMATION FOR SEQ ID NO: 2286:	
50 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
55		

AMACCIGIAT TITTAATAAA CAATCGCTTG GACCTATTCA CTGCAGCTCT TCTGGGAC (2) INFORMATION FOR SEQ ID NO: 2287: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2287: AATTCATAAA ACCAATAAAT AAGAATTTTA TAGTAAAAGG AAATGGANTA GAGTTGGCAG ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACATCTT TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGGAA TCATATAATT TTGAAGAAAT AATA (2) INFORMATION FOR SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(2) INFORMATION FOR SEQ ID NO: 2287: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2287: AATTCATAAA ACCAATAAAT AAGAATTTTA TAGTAAAAGG AAATGGANTA GAGTTGGCAG ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACATCTT TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA TCATATAATT TTGAAGAATT AATA (2) INFORMATION FOR SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
(A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2287: AATTCATAAA ACCAATAAAT AAGAATTTA TAGTAAAAGG AAATGGANTA GAGTTGGCAG ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACCATCTT TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA TCATATAATT TTGAAGAATT AATA (2) INFORMATION FOR SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double cold SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
AATTCATAAA ACCAATAAAT AAGAATTTTA TAGTAAAAGG AAATGGANTA GAGTTGGCAG ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACATCTT TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA TCATATAATT TTGAAGAATT AATA 26 (2) INFORMATION FOR SEQ ID NO: 2288: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: 35 GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 46 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDENESC CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACATCTT TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA TCATATAATT TTGAAGAATT AATA 25 (2) INFORMATION FOR SEQ ID NO: 2288:
TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA TCATATAATT TTGAAGAATT AATA (2) INFORMATION FOR SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA TCATATAATT TTGAAGAATT AATA (2) INFORMATION FOR SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(2) INFORMATION FOR SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288: GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (i) SEQUENCE CHARACTERISTICS:
GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT (2) INFORMATION FOR SEQ ID NO: 2289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289: TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG (2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(2) INFORMATION FOR SEQ ID NO: 2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(A) LENGTH: 68 base pairs (B) TYPE: nucleic acid
(C) STRANDEDNESS: double

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2290:	
	TTGGAGGTCA ATGTTCGGCG TAATCTTCAA TGTTTCCGTA CACAATTGCT GCGGTTGACA	60
5	CACATACG	68
	(2) INFORMATION FOR SEQ ID NO: 2291:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
v	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2291:	
	TTCGACGAAT TAAAACAAAT CCTTTTATAT GTTGAAGTGT ATTCGAGATT AAA	53
20	(2) INFORMATION FOR SEQ ID NO: 2292:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2292: ATCAATTGTC AACATCTAAT ATTCACTACC AATTATATCG CCACATGTTT TTTAGCAGTA	60
	ACA	63
35	(2) INFORMATION FOR SEQ ID NO: 2293:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2293:	
	CGACTCAGGT CCATCAAGAG AGACACATTT CGACTACAGG TTATTACTTC TTTGA	55
	(2) INFORMATION FOR SEQ ID NO: 2294:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 2294:	
	AAATTTTGGT TAATTTTAAA ACCAAAAAAC CTTGGAAGGA AATGGCCCTT TTCCCAATTT	60
5	T	61
	(2) INFORMATION FOR SEQ ID NO: 2295:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2295:	
	AATCTTAAAA CCTATGGCGT CTATTACATT.CCCAAAACCT ATTTTCAGNA ATGTTACCAA	60
20	TTAAACTTGC CGGGGTATGG ACCAGGGTAC CAGGCTAAAA ACTGGAAGAA AGGAAGGAAT	120
	TITAGAAAAT AATTTATTAA CATGGACCAG GTAACTAA	158
25	(2) INFORMATION FOR SEQ ID NO: 2296:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2296:	
35	TGTTCCAACG ATGAATGTTT GCATGCTTTG TTGCACTGAA ATTGATGAGT TGCTACTTGC	60
	AATCCTAG	68
	(2) INFORMATION FOR SEQ ID NO: 2297:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2297:	
50	GTAGGGATTT TTTTTAACCG GGATAGCCCA ACCAAAATTT AATTAATTTT GGGTTTTTGG	60
	ATTGAAGGAA TT	72

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2298:	
	AAAAATTIITA CCAGGTGAAA AATTATTTTG GTAGGATTTA AATIITAATGG TTTAAATGGT	60
	GGTTTATTAC CTAATTTAAA AATGGTTAAA AGGGCCTTTA CCATTTTTAA AATTTAATCC	120
15	GCCTTTTGGG AGGGGGATTT TAGGGATGGT CCAGTTAGGA CCCCATTACC ACTGGAAACC	180
	AACTTAAAAT TTGACCAAAT TTCCTGGAAA AAA	213
	(2) INFORMATION FOR SEQ ID NO: 2299:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2299:	
	TATTTTTAAA GGAGGGTAAT AATCTTAATT TAAGTTCATT ATTTTTACTT TCATTATAAA	. 60
30	TATTTAATGT TACTTTCTTA TTTAGATAAC AATAAAAAA TATAATCTCT nAAAACCCAA	120
	TGAAACAGCT GCTCCAAACA ATTAGTTCTT CTAATTGAA	159
35	(2) INFORMATION FOR SEQ ID NO: 2300:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2300:	٠
45	ACAAGGTCAT TCGGATTTGA CTTTGTTTCA ATTGTTAAAT TTTGCTCCAT CAATTGTCTA	60
	ATTCT	65
50	(2) INFORMATION FOR SEQ ID NO: 2301:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(4) 4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2301:	
5	TTTATTCTTA TTTAAAAACC CANTGAAAGT ANTCTTTNCA TTANTAAAAA	50
	(2) INFORMATION FOR SEQ ID NO: 2302:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2302:	
	GAGATATATG CATGAGCTCT ACGACTTCTT TAGGTTTCAT GGCGACTATC CTGGCAGGGA	60
20	TG	62
	(2) INFORMATION FOR SEQ ID NO: 2303:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30 30		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2303:	
	ACCAÁTCCCG TTGTTTTGGT TTTTTAÁAAA AAGGAAATTC CAAAAATCCC CCATTT	56
35	(2) INFORMATION FOR SEQ ID NO: 2304:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2304:	
45	TTTAAAACCC AACGGGTTTG GTTAAAATGG CCTGGGCTTT TCCAAAACTT GGC	53
	(2) INFORMATION FOR SEQ ID NO: 2305:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2305:	
	CGAACAGGTT GCCACTGTAA GATCTGGTGG CATTTAATGG CAATCGTATT TTATTTGGAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2306:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2306:	
	CTTTATAATG GCGGCGCACT TGGCATCTCT GCATTCAGTT ACACGCGGTG GCAACACAAA	60
	ATTTAGGGAA TTCT	74
20	(2) INFORMATION FOR SEQ ID NO: 2307:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2307: TGTCCATGCA CAGCTTTATT GGAATTTACC TTTTTACAGG CAACCGCTAA AGA	53
35	(2) INFORMATION FOR SEQ ID NO: 2308: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2308:	
	TAAATGATTA TGGGÄATATC CAAAATTATC GAGATCTAAT ATGAAGTGAC TGCACACATA	60
45	TCAGCTCTGA ATGAAT	76
	(2) INFORMATION FOR SEQ ID NO: 2309:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2309:	
	TCCTCAAAAT GTGAGTTAAT AGTCGAGTGG AAGCTGTGAC TTGAGCGACG ATACATCATC	60
5	ANACTATCAA TAATGTTTGC ACATCACTTT TACTACTATC ATTTGATGTA TAAATAC	117
	(2) INFORMATION FOR SEQ ID NO: 2310:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2310:	
	AAACTCATAT CGCTTCCGAT AACCAACCCT GCTGCTGTTG GTACAAATTG TC	52
20	(2) INFORMATION FOR SEQ ID NO: 2311:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2311:	
	'AACACTGGAG TCCTAATGTC ATCAAACATC TACCTATAAG ACCTTATATA ATCGTC	56
,	(2) INFORMATION FOR SEQ ID NO: 2312:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2312:	
	GATAACATCA TAGGCCATAA CTTCCATTTA GGCCATCAGT TATAGCATGC GGACGACATA	60
45	CTGTGCCATA TG	72
	(2) INFORMATION FOR SEQ ID NO: 2313:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2313:	
	CATCTAATGG GAACGTGTCG ATCCTAGTCA GTATAGTCAT CGGCAGGTAC GA	52
5	(2) INFORMATION FOR SEQ ID NO: 2314:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2314:	
	TAAACTGAAA TTTAATTTTC GGATGGTATT GTTATTAAGA AATAGACATA ATTTGTGCTG	60
	GATA	64
20	(2) INFORMATION FOR SEQ ID NO: 2315:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2315: CTAGTTTAAA TTTCTTAAAC TTCTACATCA GTAAAAGGCC GCTCTGGGAC CATACAATC	59
		33
35	(2) INFORMATION FOR SEQ ID NO: 2316: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2316:	
	GCATAGTAAC TTAATTGATA GGAGATGAAA ATCCGCAAAG TCATTGGAAG GATT	54
45	(2) INFORMATION FOR SEQ ID NO: 2317:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GIAINIGCIG GAAAGAIAAA GIAIGGAIAA IGCAIGGCGA ACAIIIIGIA AGCAGAAIGA	60
	GCTATAAGCG TTGAATGGGT TTGAACGTAA ACAATCGAAC AATGATATGT CAGACATACT	120
5	TGCTTTAGAG CACATTTAGA GAGCGACATG	150
	(2) INFORMATION FOR SEQ ID NO: 2318:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2318:	
	AAATCATCGA TGTTAAATAA TTTAATGACA AGGATTAATG AAAGACGGAT TG	52
20	(2) INFORMATION FOR SEQ ID NO: 2319:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2319:	
	TTAAGGAAAC CTTGGCCAAG GTTAAGGAAA ACCGGGGGTT CCAAGGTTTT TA	52
35	(2) INFORMATION FOR SEQ ID NO: 2320: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2320:	
	ATGAAGTTGA TITAGGATGA AAATTAATCT TGGGATATTT AATACTTTGT	50
45	(2) INFORMATION FOR SEQ ID NO: 2321:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CTAACGCTAA GGGCGACGGA TGGTGGTNAT GTCAAAGAGA CAAATAGGAT	50
	(2) INFORMATION FOR SEQ ID NO: 2322:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10 .	(3) 10102001. 211021	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2322:	
15	CGTGGTGATT AATTTTTCGT CGCGTTTTGT TTCCTTTCCC CAGTCATGTT TTATCATTGT	60
	GGGCATCATT GCACCTGGGT TCCATATTAT GACGTCATTT TTTANAAT	108
	(2) INFORMATION FOR SEQ ID NO: 2323:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2323:	
	GTCACCGAAT TTCGATTTAT ATTATCACTC AATTTATTAT CTTGAAGCAC GCGTTAAATC	60
30	GTCTTTAAAT TGHAACAGTT GCTACTTTAT TGTCTTTACC ATTGATCTGA ATTTGATCCG	120
	CTTTAAGTCC ACTATCTTTT ACAACTTGCn CTACCTTTTG TTGAGTAATT GCTTGTTTAG	180
35	ATTGGAAATC TACGCGTGTA CCACTTGAAA AA	212
	(2) INFORMATION FOR SEQ ID NO: 2324:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2324:	
	TCATTTGTTT TTAATACGTT GTCAAAATTA CCAACAAATG ACAAATTAAA TTTTGCAATA	60
50	CATATCAAGG TGTTATTTTT TTCCTATTTT AATTATGTAT AACGCATTAA AAGTGACGTn	120
	ARTATTCAAA GGA	133
	(2) INFORMATION FOR SEQ ID NO: 2325:	

5	(A) LENGTH: 216 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2325:	
10	ATGAACGACC GTGGACAGAC AATATTTAAA GCATTTAAAA ACAGCGTTCC CAGAAAGACA	60
10	ATATATAACC AATATTAACA AAAGCAATGC ACATTACTTC ACAAATGAAA TCAAAGCAAC	120
	ACACATATAC AATGCAATAA GCGGGCAACA ACAAACAGAT TTCAACACGC CTGTCATACA	180
15	GCAATATCGT TAACAAATGA CANCCGCCNT TTAGGC	216
	(2) INFORMATION FOR SEQ ID NO: 2326:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2326:	
	TGACCATATG ATTGAGGAAG GTTTTATTGA TCCTAAGTAT CGTGCTCTTG CACCGTTATG	60
•	CGACACTAAG GAATCATTAA TTGAATCAAT ATTAAATTTH AAACCTCTGG GTACTCGTTC	120
30	ATACGÁTTAA TCATTCTAAG G	141
	(2) INFORMATION FOR SEQ ID NO: 2327:	-,
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2327:	
	TGAAACTGCA GCGTGGCCGA GTGGGGGTTG TGCCAGGTGA CCCCAGATGG GCGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2328:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GAAGCCAGCC TAATTGGATA CCACCGGAAG TAACTTTTGA CCAGGGCCGT CGCA	54
	(2) INFORMATION FOR SEQ ID NO: 2329:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2329:	
15	GTTCCCGGGT CCAGGCCGTT GTCTTGTGCC GGGGTGTTTG GTCCTTGGTT GTGT (2) INFORMATION FOR SEQ ID NO: 2330:	54
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2330:	
	TATATTATAT ATTTAACTGC TGTGATGTAT TCTGAAAAAA TAGTAGTATT GCCTATAATC	60
	ATCTATGCCA TTGTGTTTGT AATAATTGGT ATCACTTATA TCTTTATAGG CGACAGCTAT	120
30	GATCAATTAA CAAATTTCAA TGTGATTTTG TATATGGGGA GTTTGThTTA TGCATGGATG	180
	GCTATTAGAA	190
35	(2) INFORMATION FOR SEQ ID NO: 2331: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2331:	
45	TTTTCACCTC GTGTTTTAAA TTCAATTGAA TCTAAACTAA AAGTACCTTT AAGT	54
	(2) INFORMATION FOR SEQ ID NO: 2332:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2332:	
	TTCTAAAAAT ATTAACGAAT TATACAACTT TAAGAGTTTT TAGTATGTAA ATATTCTTTT	60
5	CATATTAATA CAATACACCC CTATATATGC TCACTTGTTT GAATTAATAA ACTTTAGCAT	120
	TCTGCAAATA ATATTTTAAA AATAACTATA CTTTTTATTT ACCTATTGAA AAATAGTGTT	180
10	ATCATATTTA TTAAGAAGCT ATTTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTTG	240
	TTAAAT	246
	(2) INFORMATION FOR SEQ ID NO: 2333:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333:	
	CCTTCTARCA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA	52
25	(2) INFORMATION FOR SEQ ID NO: 2334:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334:	
	AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT	60
	(2) INFORMATION FOR SEQ ID NO: 2335:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	
50	CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA	60
	AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG	120
	TTAAGACGTA AGCGACAAAA GCGAATCCAA TACAGTGTTA TTACAATnTT GGTATTGTTG	180

	(2) INFORMATION FOR SEQ ID NO: 2336:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2336:	
	CCTACAGTCC CAACACTGTC AGTACACTGC CGATACCCAA CCTCTGGCCG GTCCGGCA	58
15	(2) INFORMATION FOR SEQ ID NO: 2337:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2337:	
	ATATTTTTA TITAATGGTT TTACTACTGC TACAACTATC ATAGGTGGCA	50
	(2) INFORMATION FOR SEQ ID NO: 2338:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2338:	
	CTCCTGTAGA TTTAAAATCT CCTAAATAAC AAACGAATAA TCGGCCATCT TTATGTATTT	60
40	TGATTGCTGC AGGATTCGCT TTGTGACTTA CAAAAGGTCG TTTGATTTCC TTCGTTTCAG	120
	GATIGATITI GAAAATATIG CCTTCGAATA CATCCAATAA AAAGAGTIGI CCCTGCCGAT	180
45	CAAAGTTCAA TCCTTCTAGT TGCAATCCTT TTTTGGAAAT TTCAAGCCAT GGTTCAGCTG	240
45	TAATTGTTTG TAATTCACTT TCAGATATAA TTGGAACAGC ACTATTGGAC TTCCCGCnAT	300
	AAAATAATGG AGGGNAAANC TGGTGGGGAC ATCCATGAGC CATTCCTTTC CATTCCATTC	360
60	GGTTTTAACT AACCAATT	378
	(2) INFORMATION FOR SEQ ID NO: 2339:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
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	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2339:	
	ATGAAAATAA ACTGTGTCTC CHGATGTATA CGTCCCTTCA AGCAGACTTC	50
10	(2) INFORMATION FOR SEQ ID NO: 2340:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2340:	
20	TATCCATATG TGAAAAATGT CATATATGAG TCTAGTTTTG TATAAATGGA GACTCGAAC	59
	(2) INFORMATION FOR SEQ ID NO: 2341:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2341:	
	ATTGATAAAA TATGATTAAG CGTTGTTGCA AATGACATTT TCTCAAAAAG CGCTTCACTA	60
35	TCAATTGGTA CTTGTGTGTn AATTTCAGCC AGTCGCTTCG ATAAATATAG TTCATCTAAA	120
	TTGTCATTAA TCTTATTACG TTGCCCAGCT GATAATGCAT CAATGTTTTC AACCACATTT	180
	TCAACGCTT	189
40	(2) INFORMATION FOR SEQ ID NO: 2342:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2342:	
	ATCAATTAAA ACAAAGCATA CAACAATTTG TTGATGTTGA ATCTAAATCA ATTTTAGAAC	60
	AACAAATGAT TCATCAGCTT CAACAAATGG ATCGTTCTTA TGTAGAGATG ATTACAGAAT	120
55		

	(2) INFORMATION FOR SEQ ID NO: 2343:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2343:	
	CTTAACCCCC CTTTTTTCCC AATTTTAATG GGGAAAAATT GTAATTAACC TGGGC	55
15	(2) INFORMATION FOR SEQ ID NO: 2344:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2344:	
25	GACAAATAAA CATGACCTGG ACAAAGAAGA ACAATAAACA AGCCTGGCAA	50
	(2) INFORMATION FOR SEQ ID NO: 2345:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2345:	
	GTATTGCGAT GATGCATACG GGTATTGTTC TGATTAAATA ATATTTCATA TTTAATGTTG	60
40	ATAAATGTTG AATAAACAAT CCGCAAAGnG CACTTGATGA TAGTGCTAAG A	111
	(2) INFORMATION FOR SEQ ID NO: 2346:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2346:	
	GCAAACAGTT TCCGTGTCCG TTTTCCAATT AAGTTAAGGA ACCCAAAGAG A	51

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2347:	
	TCGTAGGTGC CATAACACAC GTTACCTGGG ACTCATATGA AGTATTATGT CGAGACGACC	60
	(2) INFORMATION FOR SEQ ID NO: 2348:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2348:	
	GTTTTTAATA GGCTCTTTAC GTATCTAAAA ATAATTGCAT TATTGGTGTG CCTTGATGTA	60
25	ATTGAATTAA AGTACCGTTT GGTTGTAACG TTTCAGGTAT ATCATTTTCA ACNATAAC	118
	(2) INFORMATION FOR SEQ ID NO: 2349:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2349:	
	ATGACAGAAA GCAAAATCCC AATGTTGATA TACCGTTTTT GACACCACTT GATTATCATT	60
40	ATTTTTTCTT TAGCGATGGA TTTTATATTA CGATTTCAAT TCTTACTATC GTTGCATTAT	120
	TGTCATTCAA ACTGTATCGT TTTTACTnTT ATAGACTTTT CGCAATAGTA ACATGG	176
	(2) INFORMATION FOR SEQ ID NO: 2350:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2350:	

	CTACGACTGA CATTAACTGT GCAGATGTAC CTGGATTCTA TTTTTTCAAG AACAAATTGT	120
	AATAATTGAT AGTTATATGG TGCAATGTCA CCTTCATCCA TTGAGCGCTC AATAATTTCA	180
5	GCTGCnAGAG CGGCnTGACT G	201
	(2) INFORMATION FOR SEQ ID NO: 2351:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2351:	
	ATCGCTATAA CCTATCAGTG ATAATATTTG ATTGCATGGT GCACCATTTG ANATTTCACT	60
20	TAGAATGGTG GTACCTAATT GCTTATTTTT ATATGTCATT TGAAGATTTA AAAATTAAAA	120
	ACTTTGATAC AGAGTGAAAC CATATTTCAA CAAATTAC	158
25	(2) INFORMATION FOR SEQ ID NO: 2352:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2352:	
35	TCGTAATCAA AACATTTTGA ACAGGATTAT AGTAAGGGAA TTTTTGGATT TTAACTTGTG	60
	TTTGTTCATT TTTTAATAAG AGTCGAGCTA AGTCTTGCAA CATCATTACT TGCTTGGCAT	120
40	CTAACTGTTC GTCATTAAAT TTTATGAAAC GATCACTCAT GTTTTATCCC TCTTTAAAAG	180
40	TTŢAGTTCTA CAGCATTATA TATTGCTTGT TGTTCACGTT CATCTTCCAA TTTATCAATA	240
	ATTGTACGTT TAATTGCACG TTCAACTGGC ATTACAGTGA TTAAATCACA CAAGTCTAAT	300
45	AATGCACGGG ATACTAGCGG CTTCTTCAGA AATTTGTCCC TGCTTAGACA TAGTACGTAA	360
	ATCTTCATTG AAACTTMAAT AATTTGGTTC GATTTGGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 2353:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2353:	
	ATTAATGGGG TTAAATAACA TTTTGACTGC GAAAGATTTA TTCTTTTCAG GTAAATCATT	60
5	GATAGATGTA TATAGTCAAT TTGCTGGATT AGCTGAAATG ATAAATGTnT TTGCGAATGC	120
	ACCATTT	127
40	(2) INFORMATION FOR SEQ ID NO: 2354:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2354:	
20	ATCTCGCTGT TTTTATGAAA GAAAACTACA TTTTCGAGAG AATAAAAAGA TTTTTCTGAA	60
	ATTTAATCTA TCAATTACAT TGATTTACTA ATATAATTAG AAAGTAAATT TTATTTGATC	120
25	AAAGTAAATG GGGGAAGTAC TGTGATAGAA AATAAGAAAA CAGTTGAAGA TACATATTCA	180
20	ACAGGCGCAA TTGTTGATTC AATATCATCT TCAGTnCAAA TGn	223
	(2) INFORMATION FOR SEQ ID NO: 2355:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(b) Torobodi. Tilledi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2355:	
	ACACTTGTTC AAACACTCAC AATGATAAAG CATATTATCA GTATTGTAGT GTGTGGAAAA	60
40	TGACAGCCAT CTAAGGAGAA AAATGATGAA AAGAATATTG GTAGTATTTT TAATGTTAGC	120
	AATTATATTG GCAGGTTGTT CTAATAAAGG TGAAAAGTAT CAAAAAGATA TTGATAAAGT	180
45	GTACAAAGAA CAGAATCAAA TGAATAAAAT TGCCTCGAAA GTACAAAACA CTATTAAAAC	240
	AGACATTAAA CAAGAAGACA GTAATACACA TGTTTATAAA GATGGTAAAG TCATTGTTAT	300
	TGGTATTCAA TTATATAAAG nTCGTGAAAA AATGTATTTA TTTCGCATAT GAANTAAAAG	360
<i>50</i>	GTGGTTAAGG CCAGAGGATT TAATCAGNGG AAANTAGACC	400
	(2) INFORMATION FOR SEQ ID NO: 2356:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2356:	
	AATTTACTTT GTGCCACAAG GTTATCAATG TCTTTTGAAC CACCAAACAT TCTAGCGATT	60
	AAGTGACCTC CATCATCGTC TGGTAATCTA TCCTCTCCCC CCACAGTTCT TTGTGCATGG	
10		120
	CTATTACGAT CCCCATCTTT TAGAGAGAGA TTGTCTACAT AAACTTCTTT TATGCGACCT	180
15	TTATGATCGG TTCGATATAT GTGACCAGTA GGTGTTGTGT ATTCAATATT CGCCTTTAGT	240
	TTCTTAGGTN CTAAGTCTTG GCATAGTGTT CTCCGAATTC NAACCTTGGT GTTAGTTTGG	300
	TGATTCAACA TACTTTTGAT GGAATTCATT THCATGGGCT ACTT	344
20	(2) INFORMATION FOR SEQ ID NO: 2357:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2357:	
30	TATGCGCCCC TGCTTGATCT TTCATTTGCG TCCACTCAAT TAGTTGTTTG CGC	53
	(2) INFORMATION FOR SEQ ID NO: 2358:	·
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
33	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2358:	
	ATTTTTCAC CTTCTGAAAT TGATAAATCT AGGTTATCGA ATATAGTCTT ATCGGCATAA	60
45	GATTTATTTA AATGTTCAAT TTTATATGCT TCCATACCCA TCTTCCTTCT TCTGTTGAAA	120
	TCTCTACGTA CTTAAATCAG TTCTATACAT TATACACCTT TTTGAAATCA AAAGAAATCG	180
	ATACCGTTAA GTGTCATAAT TTAATATATT GTTGCTTCAA CTATAAATAA AACTTGTTAA	240
50	GGCTTTGATG ACTATGCTAA TGATCTTTAT AATATACCTT TTTATCAACA CATATAATGT	300
	AAAACATAAT ATAMAAGAAC ATAATAAAAA CCCGGATTGA TATTTTATCA ATCCGAGTTC	360
55	GTGTTTAGAT ATTATTTTTT AGAGTTTGCT TTAGGTCCTG	400

5	(A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2359:	
	TTAATGTCGC CATTTTTTGT TAGGTAGACG TATAAATCTG GACCTTTTGA TGATTTGTAG	60
	TTAGTAAGCA TTAATTTACC ATTTTTAATC TCAGCTTTAC CTTCAACAGT TTCACCGTTT	120
15	TTAGAACTGA nTGTACCTGT TAGGTGTTTT GTTT	154
	(2) INFORMATION FOR SEQ ID NO: 2360:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2360:	
	ATATGTCTTG TGATTTTTCA GGTGTAAGTT AGTATGCAAG TGATTATGAT TGATAGT	57
30	(2) INFORMATION FOR SEQ ID NO: 2361:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2361:	
40	GGCATCAAAT TAGTAGCGAC TCACACGTGA TGCATCCTGT GTTTTGGATC TCATTTCT	58
	(2) INFORMATION FOR SEQ ID NO: 2362:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2362:	
	TGTTATTATC GNAGAGGCTT TTCGCTTTGG AATAAGGTAT TACGTGAATG	50
55	•	

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2363:	
	CTCTTCTGGT CCCTGACATA CATAGGAGAA ATAGCnCCAT GTACAACGTG	50
	(2) INFORMATION FOR SEQ ID NO: 2364:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANCENES: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2364:	
25	ATTGCCAATG TCGTTAGTTC GTGAGGCTGT TGGTGAAAGT TGTGTTTGAA	50
	(2) INFORMATION FOR SEQ ID NO: 2365:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2365:	
	CCATGATTTA AATCATTGAT TAATGGTGCT TGTTCTACAT CTGTGTAAAA TTCATACAAT	60
40	TCTTTAGCAT CGTCGAATAG TTCATCACGA CGTTGGbTAA ATTCTTCTTC T	111
	(2) INFORMATION FOR SEQ ID NO: 2366:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2366:	
	TAATGCTGAG CGTGTTACTT TAGTTGGATC AACGATACCT TCTTCTAACA TATTAACCCA	60
	CTCnTTTGTA GCAGCGTTAA AACCAACACC CGGCTCTGCG TTTTTCAAAC GTTCTACAAT	120
55		

	(2) INFORMATION FOR SEQ ID NO: 2367:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2367:	
	CCTGATTGCA AAGTACAGCA AGCACTACAG ACGCCTAAnC ACTNACACTA	50
15	(2) INFORMATION FOR SEQ ID NO: 2368:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topologi: Timear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2368:	
20	AAAATGGTAT TGCAATTAGT AATGTTACAA CAAGTGTTGT AATAGCTGCA TAAAT	55
	(2) INFORMATION FOR SEQ ID NO: 2369:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2369:	
	TATAGGATGA AAATCCTGCC AAAAGATTAA GGGGTGGCCT AATGAACCAT G	51
40	(2) INFORMATION FOR SEQ ID NO: 2370:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<i>50</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2370:	
	TTGCTCGAGG TGGTAAATAC GCAAAGTTTA TTTGGTTGTG CTAAGAGAGA AA	52
	(2) INFORMATION FOR SEQ ID NO: 2371:	

5	(A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2371:	
10	TAATTTGAAT AAGGTGGAAG TGATAAACAG TGCTTTGCGA ATCTAGAGTC ATTAATCAAA	60
	ACCCTA	66
	(2) INFORMATION FOR SEQ ID NO: 2372:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2372:	
25	AGACAGGTAC TGTCCTACGG TATGGAGCAG AAGCGGGAAA GCTGCCCAGA GCCAACTGTA	60
	GACAA	65
	(2) INFORMATION FOR SEQ ID NO: 2373:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2373:	
	TTGCAGTGAC GGCTTATAAT CATTCCAAGC GAACAATTAG ACATTCCATA TAAAATATAC	60
40	AGATGGCTTT CAGTAGAGTA GTGGATTCGG ATTCACGAAC TATACTGGAA GCTTTTTATT	120
	ATAAATGAAG AGAAGTTATA TTTTTAGCAT GTATAGTTGA ATACTGGGTT AAAATACCAT	180
45	ATTAATAATG AAGTAAAGGT ATGAGTGATT ATGAAAGTGT TTTGAATGAA	240
	TTGGTGATGC TTTTAATTGA AAAGATTAAC AGGATTCAAC TTGGTAAATT GTATTAAATG	300
	TGAGAAAATA AAAGTATATT CATTGAGAGA TATATGAGTC AATGATCGTT TTAAACAAGA	360
50	TAAGTGTATT TTAATATGTA AAAGTTATGT AATAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 2374:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2374:	
	CCTATCATGC CTCTCTCA CTGAATCCTT TAGATCCCCT TCCCTCCTC TCCCCCCTCT	60
10	TTTCCCCTCC	70
	(2) INFORMATION FOR SEQ ID NO: 2375:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Totoboot. Tilled	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2375:	
	CCAAGTCAGA GCAGCAGTTC AGTTCGTCAG CNGTTCAGTT CAGAGCNGTC	50
25	(2) INFORMATION FOR SEQ ID NO: 2376:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2376:	
35	GTTGGTGAAG CTGTTGCCGA nGGAGAAGCG GGTATGGATC CTGACGGTGn	50
	(2) INFORMATION FOR SEQ ID NO: 2377:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2377:	
	AATTGCAGGA CAGGTCAAAG GCAAATGCAC GTATTCAGGT CATGCTCATG TGCATGTTG	59
<i>60</i>	(2) INFORMATION FOR SEQ ID NO: 2378:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2378:	
5	TTTATCATCG TATAAATCTA TATCTAATTG ATTAAACTTC GGGTGCTTAA CTAACTCTCT	60
	CAATACACTT ACACCAGCAG TTCCCATGCC TATTATTGCT ACACGCATAT ATCATCCATC	120
	CTTTTGTAAT TCAAAATATT ATATTTAAAC TATTACCTAT AATTATAGCA ATTTGGTATT	180
10	TCCAATAAAA TTTATMAAGG TAAGCMATTA TTTCACTTTC ACAACCATT	229
	(2) INFORMATION FOR SEQ ID NO: 2379:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2379:	
	AGTTTTTTGT TTGACGTATT TAATTTACTA TTTGCTTGAT TGATATTTTT AGACATTAAA	60
25	TAGTGTTCTC CTAATCAATT TATTCTTCTT TATTTCAGCA TTATTCGCAC TGACAT	116
	(2) INFORMATION FOR SEQ ID NO: 2380:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2380:	
	CAAATCTTAG CGGATGATTG GCATGTATAT TCTGCTGGTA TCGAAnCACG CGGTGTTAAT	60
40	CCCAAAGCGA TAGAAGCTAT GAACAGAAGT CGGCGTTGAT ATGTCGAATC GTACGTCAGA	120
	TTTAATCGAT AATAAT	136
	(2) INFORMATION FOR SEQ ID NO: 2381:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2381:	

	TTAATTGATA GCTTTTATCT GTAGGAAAAG CTATTTTAAA GATTTCTAGT GTATCTATAA	120
	CTTTTTTGGG ACGATATTGA ATATTACAAT CTTTAAATGC CTTTTTAATA AAATTCAAAT	180
5	CAAAATCTAC ATTATGAGCT ACAAAAATGC AATCTTTTAT CTTATCGTAG ATTTCTTGTG	240
	CAACTTGATT AAAATATGGC GCTTGTTGTA GCATATTTTC TTCAATGGAT GTTAACGCTT	300
10	GAATGAACGG CGGAATCTCT AAATTTGTTC TAATCATAGA ATGATATGTA TCAATAATTT	360
	GGTTATTGCG CACAAACGTT ATACCAATTT GAATGATATC	400
	(2) INFORMATION FOR SEQ ID NO: 2382:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2382:	
	TATTTGTTA ATAAAGTTAA TATATGTTTG TTGTACAGAT AGTTCAGGAT ACA	53
25	(2) INFORMATION FOR SEQ ID NO: 2383:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2383:	
33	CCCGAGCTTG CCCTCCTTCC CCCCTCTTCG CCTCCAGACG AAGTGCCCTT CTGTCCTTG	59
	(2) INFORMATION FOR SEQ ID NO: 2384:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2384:	
	AGCCAACATC CCMGATGGTA CTTGCATTAA TGCATAACCT AGAGAGAAGA ATGATGCCAA	60
50	TARACCARAT TGTGGTTTTG TCATCCCTAR ATCATCCATC ATTTGCTTAG	110
	(2) INFORMATION FOR SEQ ID NO: 2385:	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2385:	
10	TGAAAGTTCT TTTANGCATC AATTTTAANA CTACGAGCGG ACNCTAATAT	50
	(2) INFORMATION FOR SEQ ID NO: 2386:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2386:	
	GGCAATTTAT TGACACAATG CTTGAGCMAT TGATAGCAGG ACAAGAAAGA ATACTTGATG	60
25	AGTTAATACC AAAAATGGAT GCGACTGAAA AATTAACGCT TTATTTAACT AGTCATTATA	120
	AACAGATAGA TTATGAATTT TTGTATCTCC TTTCAATGGA TAAATTGTTT GGAAATAAAA	180
	GAAATAGATT AACATTAATT GATTTAGAAA ACATATTGGG AGTAGGAAGA GTAAAAATTA	240
30	GTnGT	245
	(2) INFORMATION FOR SEQ ID NO: 2387:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2387:	
	CACAAAATTC GAAATCGTCA TCGGTGATAT GTTTAATACT TGGGAAAATA TAAAACGCGC	60
45	CTTCAGGTTG AGCGGTAATC TCAAAACCTA ATTTAGTTAA TTCAGATACT AAATAATTTC	120
	TTCGTTCnAC ATAAGCTTCG	140
	(2) INFORMATION FOR SEQ ID NO: 2388:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(X1) SEQUENCE DESCRIPTION: SEQ 1D NO: 2388:	
	ATATAACATT GTAGGGCCTA ATAATTTATT TTATGTCTCA GACTCATACA ATGGTTATTT	60
5	AACTTATTTA CCACAAATTG AGCACTAAGA CTCACTATTA TCGATTCTTC TATTGAACAn	120
	(2) INFORMATION FOR SEQ ID NO: 2389:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2389:	
	TCTAAATCCA GCATGATCTA CATCAAAGCT GAATTCACCT TTTTCATCGA CTTGCAAATC	60
20	AGGGAATTCT TGACCTTCAC CTAGT	85
	(2) INFORMATION FOR SEQ ID NO: 2390:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2390:	
	GGTGTTTATA AAGCAGGGGC TGAGCCTCGG TCAGGACTGG ATACACAGGC AGTACGGGTG	60
35	A	61
	(2) INFORMATION FOR SEQ ID NO: 2391:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2391:	
	TAAAGTAACC ACTTTAGATG ACATTTTAGA AGTTATGGGC CGAATGCAAA C	51
<i>60</i>	(2) INFORMATION FOR SEQ ID NO: 2392:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
65	(C) STRANDEDNESS: double	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2392:	
5	GGTCGGAntc CCGGGTCGAC CCACGCGTCC GCATCAACCT AGnAGAAGCn	50
	(2) INFORMATION FOR SEQ ID NO: 2393:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2393:	
	ATTTCCARAC GAATTGAAAA ACGGACGTAA ATTCTTAACT AAAGGCGATA AATGT	55
20	(2) INFORMATION FOR SEQ ID NO: 2394:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2394: ATAGGTTGCT ACTATTATA TCGACTCATT TTCACTTACA AATATGACAT TGTCTCTAGA	60
	ACACNAAAAT TAATTTGCGT CATATCTGCT ACAGTTTTGA GTGTGTTATC AAGTGTATTT	120
35	(2) INFORMATION FOR SEQ ID NO: 2395:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2395:	
45	TGGACCATAG TAAAGCATTA CGGTCGGTTT ATTATTTCT AAGGAAGTAT GTTTATATAA	60
	ATCTATGCTC ATTTGTTTTT TAGCGTCTGT TTGACCTATT ATTTTAGAAC CAGCCATCTG	120
50	CTCTTTATAA AAATTTATTA CATCATCTTT TTTTAATGTT GTATATTCAT AGTTTATTTC	180
	TATTATRICA GAATCGIGAA AACTATITAG IGATIGARAT ACTCITITIG GAGGATICIG	240
	AATATAGATT TTCTTAATAT T	261

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2396: GTTTGAATA TAGGGGCTIT TATCACTCTC CGAAGTCTHT TCTAAGTTAG ATTTGGAAAA TAACACTTTT TTAGTTTCAT TCAAGCGAGT CGAGTGACTC CAGA (2) INFORMATION FOR SEQ ID NO: 2397: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: GATTATCGAT CACAGTATGA TTTACGTAGC AATTTCTGGT ACATATACGC CTAT (2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAAATTTCAC TTAAGTATTT nTncT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
TAACACTTTT TTAGTTCAT TCAAGCGAGT CGAGTGACTC CAGA (2) INFORMATION FOR SEQ ID NO: 2397: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: (2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	10		
(2) INFORMATION FOR SEQ ID NO: 2397: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: (2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA 40 TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT NTDCT 45 (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: (2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TAACACTTTT TTAGTTTCAT TCAAGCGAGT CGAGTGACTC CAGA	104
(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: 25 GATTATCGAT CACAGTATGA TTTACGTAGC AATTTCTGGT ACATATACGC CTAT (2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA 40 TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT 45 (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	(2) INFORMATION FOR SEQ ID NO: 2397:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397: 25 GATTATCGAT CACAGTATGA TITACGTAGC AATTTCTGGT ACATATACGC CTAT (2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTITACATGT TICTTTTAAA 40 TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTDCT 45 (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
GATTATCGAT CACAGTATGA TTTACGTAGC AATTTCTGGT ACATATACGC CTAT (2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20		
(2) INFORMATION FOR SEQ ID NO: 2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAAGTTTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25	GATTATCGAT CACAGTATGA TTTACGTAGC AATTTCTGGT ACATATACGC CTAT	54
(A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: lll base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2398:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398: GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA 40 TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT 45 (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30	(A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTAAA 40 TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT 45 (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	35		
TACGTTTGAT ATTITAATAA TACTTTTTCG ATTITACTCA TATAAGTTTG AAGTTCTAAT TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398:	
TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA	60
GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT (2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40	TACGTTTGAT ATTITAATAA TACTTTTTCG ATTITACTCA TATAAGTTTG AAGTTCTAAT	120
(2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA	180
(2) INFORMATION FOR SEQ ID NO: 2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid 50 (C) STRANDEDNESS: double		GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT	235
(A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45	(2) INFORMATION FOR SEQ ID NO: 2399:	
	50	(A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	TTTGATGCAC TTATTTGTGT AATGACATCT TTACAGTCTT TTCCTTCCTC CATCATTTTA	60
	ATAATTCCAT TTAGTTGCCC TTGTATTCTA TTAATACGAT TAATCATTTT n	111
5	(2) INFORMATION FOR SEQ ID NO: 2400:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2400:	
	AAATGCTGGC TGAGTTTTGG GCCACCCGCA AAGGCACTGG ACCGGTGCGA AACC	54
	(2) INFORMATION FOR SEQ ID NO: 2401:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Topologi: Timear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2401:	
30	AACCACTCAT CACTACTAAA ATGATACTTA AAAACAAAGT CTTAATACAC TTTTTCATAA	60
	TATCAACTTC TTTCTATATT TAATACATTA ATTATACATC TTTnTnAAAT AAAAATATGT	120
	GTAAAATTTT AAAACTTATT TAATTGATGT TITAATAATG TATTATAGAA ATTATTGACA	180
35	TATGATTAAA AACCCTTAGG ATAGT	205
	(2) INFORMATION FOR SEQ ID NO: 2402:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		,
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2402:	
	AGATAATCAT AGAGAAAGTC CACAGTCGGT AGAGGTGGTA GCTGAAAACA ACATACTATT	60
50	AATTATGAAG TGCTTTGTAA CTTGTCGAGA CGTTTGCCGC GAATCTATCA TGATGGTGAT	120
	CAACGTTTTG TnACAAATGA	140
	(2) INFORMATION FOR SEQ ID NO: 2403:	

5	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2403:	
10	ATTTAACCAC TCCTCCAATG ATAAGATTGA AAGGCAAGAT GACCTTCCAA TCTTATTT	58
	(2) INFORMATION FOR SEQ ID NO: 2404:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2404:	
	CAGCTTCTAC AATACGGCGT GCTATAGCAA GCATTAATGT AAATCCTAAT TCTGCAGTTG	60
25	T	61
20	(2) INFORMATION FOR SEQ ID NO: 2405:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2405:	
	AATAATCATT TTAATACGGT CTTCAGGAAT TGAAGTGTCT ACAGGTACAT ATCCACATCC	60
	TGCTTTAATG GGCACCAATC ATCCCAACAA TCATATATGG TGACATGTGA CCGANTAAAA	120
40	TCATCGGGTT TCTnACTACC TTGTAATCGA TGTGGCTAAT TTACTAGACT CATCCATTAA	180
		217
	CTGTTGATAA GTTAATTCCA TCAGTTGTGT GTCTAAC	
45	(2) INFORMATION FOR SEQ ID NO: 2406:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
66	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2406:	

	GTAGTATCCA ACGTATITCG GATTGCATCG AGTTGATTTT TATTATTTTC TTCAATGCTA	120
	TCAAGCGCAn CTGTATTACG TCTTACTTTA GGTTTTATTT GCTCTATTGC CTTGATTGTT	180
5	TGATnTCTAA CATCAGTAAC AGCAGCATCT TGATTTGTAT TGTCTATT	228
	(2) INFORMATION FOR SEQ ID NO: 2407:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2407:	
	CCTTTCGTCT CGCGCGTTTC GGTGATGACG GTGAAAACCT CTGACACATG CAGCTCCCGG	60
20	AGACGGTCAC AGCTTGTCTG TAAAGCGGAT GCCGGGNAGC AGACAGCGAT	110
	(2) INFORMATION FOR SEQ ID NO: 2408:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2408:	
	GGAGACCCCA AAAATTTTGT CGTTGAAGAT GCCTTTTTTT AAGCGTTATT TGGCTATATC	60
35	AGTTTCTAAC TGT	73
	(2) INFORMATION FOR SEQ ID NO: 2409:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
4 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2409:	
	AAATCATTAG AGAGGAATAG TTCCCTTTGT TACGCCAAAG ATTCGATATT GAC	53
50	(2) INFORMATION FOR SEQ ID NO: 2410:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2410:	
	CCATATGATT GTATAGGATC CATGACGTCT CCACTGACCC CTGACTCTAG TATC	54
5	(2) INFORMATION FOR SEQ ID NO: 2411:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2411:	
	GTTCCTCTTC AATTGTTATA TGTATATCAC AAAAATTATT TCATTATTTT ACCATTATTA	60
	TTTTACAAAT ATTATCCCAA GAATACAATT CAAGAAATGA TTAACTTTAC TTTAGAATTG	120
20	TACCTTATTA CATTATTTAT GAAAGTACTC TCTCAATTAT AACNAAAAAG AAGGTGTTCA	180
	ATACATHCAT ATTTAGTCTT ATAT	204
	(2) INFORMATION FOR SEQ ID NO: 2412:	
25 30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
00		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2412:	
35	CAGTGGCGCA GAAACATAAC GCTCAGGGAA GCACAGCACC TCATTATGCC AAAGCT (2) INFORMATION FOR SEQ ID NO: 2413:	56
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2413:	
	TCGCTGGCGG GTCCCGCGCG CCTAGCGTGC TCATGTGCGG TGTTCTAGGT GTTGGGGTTG	60
6 0	CAGTCA	66
	(2) INFORMATION FOR SEQ ID NO: 2414:	

5	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2414:	
10	GGATAGAAAT GGGAATCCAC CCATCGGTGG GGGTACCAGG CTCTTCATAT GGCCTTGTGG	60
.•	ACTTC	65
	(2) INFORMATION FOR SEQ ID NO: 2415:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2415:	
	TTAAATAGAT AGAATAGAAT TAAAGAGACG ATGATAGGTG CTGCTATCGT CTTAAAAACG	60
25	ATGATAAAAG GATCAAAAAC ATATGATACT TTTTCGAAAA TAAAAATAAC AATACCCAAC	120
	AATACTAGCG CTATTAATGA GAAGACTAAA TCATTCCCAC CAACAAACTT CATATACCGT	180
30	GATTCGGTAA ATTTTmnAAA ATTCTTTCTT ATATTCTTTT CATTTCATT CAATTATAGA	240
	TTCACCACCA CTTAAAATAT TCATAAG	267
	(2) INFORMATION FOR SEQ ID NO: 2416:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2416:	
45	TTAAACAAAT GAATATAGTA GTTCCATTAT CCTCACTTTT AATCGTTTAT	50
	(2) INFORMATION FOR SEQ ID NO: 2417:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ITIGCIGGGA GIIGCATTAA GAAATATAC ACATTTACTT GACATTCAAC TIGATAAAAA	60
	ATTAGTTATT GCCATATGTT GCATCACATT TATAGGGATT TTAATATTTT ATGTACGCCT	120
5	AATTAAAAAA TCATCTTTAA ATATTTATAA TACTAAAAAT AAAAGGTCAA AAATnTT	· 177
	(2) INFORMATION FOR SEQ ID NO: 2418:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2418:	
	AAAATGAAGC GGTCGCAAAA TATAATGACG TGAAAGCATT TTATACTCAT GGACATTTAT	60
20	ATCAAGTCAA TCGAACAAGA GATTTATTAG CTGAAAAAGG ACTTGAATTA GGTTGTTTGT	120
	TTGCATTTTA TGGACATACA CATGTGGCAA AATATGAGTA TATTAATGGT GTTCATGTTA	180
	TTAATCCTGG AAGTATATCT CAATCTAGAA GTTCAATGGA AGAAACATAT GCTGAAGTTA	240
25	TTATTGATGA TCAAACTTTA CATGGCACCA TCAATTTCAA AAATCGACAT CACGAAACAA	300
	TCAGTCATAC TACTTTTTAA ATAGAANTAG CTATGGCTTT TTTTAGTTTA TAGACTGATT	360
30	TAACTAGGAG GTCGTGTCAT CCAATGTTTG TTTAAAAGTA	400
00	(2) INFORMATION FOR SEQ ID NO: 2419:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2419:	
	AGGGTGCCGA GTTAACCAAG AAAGGCCGTT GGTTGCCCCG GGTATTTTCC CCC	53
	(2) INFORMATION FOR SEQ ID NO: 2420:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2420:	

	(2) INFORMATION FOR SEQ ID NO: 2421:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2421:	
	ACCAGAAGAC AATAAGTGTA ATGATGCCTG TTCTAATACA GAATCTTTAC TTTTTATTGC	60
15	CTTTTCAAGT CGTTGTTCCA CTTTCTTAAT TTCATTGTTC ATGTTTAACT TTGCCAnGTT	120
	AATCACCTTT GGTATTATCT TTTTCTTTAT AG	152
	(2) INFORMATION FOR SEQ ID NO: 2422:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	-
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2422:	
	GTACGTTTC ATTAGTTGTT ATATTTCCAT CTTGATAATT TTTTAAATCT TTAAAATCAG	. 60
30	CATACTGACT AAAAAATTTA AAATTTTCAA TTTTTTTGTnT AAGTTTTTGT CTTCTACATT	120
	ATCCAAAAGA ACAATCTMAT TATTTTTTAG TTCAACACGA TATTTTTTCT CATTATGATT	.180
	TTTGCTAATA TCATCATAAA CTTTATTTAC AAAATAATAA CCTGTTGCCT TTTTGGTATT	240
35	TCTATTAAGA TATAACACCA TGCCTTCATC ATCTAATACT CCTGGTTTGT TACTTTTTGA	300
	AAAACCn	300
40		307
40	(2) INFORMATION FOR SEQ ID NO: 2423:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>60</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2423:	
	ATTGTGTTGT ATTTTAGACA AGACCTTCAA TTTTGGAGAT TTCACGATTT ACCACC	56
	(2) INFORMATION FOR SEQ ID NO: 2424:	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2424:	
10	AGTCCTTTGG ATCGTCAAGA TTTCACACAT TTACANTTAT TANCTCGTGA	50
	(2) INFORMATION FOR SEQ ID NO: 2425:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425:	
	ATGTAATATT ACAATTCAAT TAGNAAAGAA CTTTATCTTT AATTGCTTTT CGATTTCATT	60
25	CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT	120
	ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG	180
	CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGAnTTA AGTTAGACAA	240
30	AAGCTTTT	248
	(2) INFORMATION FOR SEQ ID NO: 2426:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426:	
	CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC	53
45	(2) INFORMATION FOR SEQ ID NO: 2427:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2427:	

	TATCCACTAA AATGATTIGC GCGTATIGTA ATATTAATCG TTCTACTTTT TATGATTATT	120
	ACAGGGAGCA ATTTGATTTA TTGGATACCA TCAACTCNAA GCATAGGTGG AGG	173
5	(2) INFORMATION FOR SEQ ID NO: 2428:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2428:	
	TACTTATGTT TATGTCGCAA TAATTAATGT TCGALTTAGT GGAATTGAAC	50
	(2) INFORMATION FOR SEQ ID NO: 2429:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2429:	
	AGTCATCATA TTATCAATAA TACGCCGCGT TAAATCTGAT AAATTCATAT AGTCTGTATC	60
30	TAACTCTG	68
	(2) INFORMATION FOR SEQ ID NO: 2430:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2430:	
	TGAATTGAAA ACGGTCGGTG AAGCGCTAAA AGGTAGACGT GAAAGGTTAG GAATGACTTT	60
45	AACAGAATTA GAGCAACGTA CTGGAATTAA ACGTGAAATG CTAGTGCATA TTGAAAATAA	120
	TGAATTCGAT CAACTACCGA ATAAAAATTA CAGCGAAGGA TTTATTAGAA AATATGCAAG	180
	CGTAGTAAAT ATTGAACCTA ACCAATTAAT TCAAGCTCAT CAAGATGAAA TTCCATCGAA	240
50	CCAAGCCGAA TGGGACGAAG TAATTACAGT TTTChATAAT AATAAAGACT TAGATTATAA	300
	GAGTAAATCC AAAGAGCCAA TACNATTATT AGTAATCATG GGNATTACAG TTTTAATAAC	360

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	57
	57
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2431:	57
TGACTTCGTC CAAGTACAAC TGCAGTCAGT ACCTACGAAA TCAAGATCAG CATGGAT	
(2) INFORMATION FOR SEQ ID NO: 2432:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2432:	
25 ATTCTTAATC GCATCATAAT TAATTAACGG ACGCATAACA AATCCGATAA TACTATT	ATC 60
TTTCCAAGTC ACTGACACTC CAAATTGATT TGCTTCnTCT ATCCATATTT GCTCAATA	AGT 120
ACCATCATTT TGAGTACACA CTTTTAATTC ATGTACATCA GACTGCCTTG TATAAGA	TTT 180
GAAAAGTTTC CTAAACTGCC AATAACTGNA CTCTCGCTTC AAATT	225
(2) INFORMATION FOR SEQ ID NO: 2433:	•
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2433:	
CGGCCTGACG TTACATTTCT TCAACTTCAC GTCAAAATTG CTTCGCAATA ACCAGGA	57
45 (2) INFORMATION FOR SEQ ID NO: 2434:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTAAACGTGT CTTTAATGTG GAAGTTGAAA TATTAGTCCG TAAAAAAATG AAACTTAAAA	60
_	AAAAATAATA TTTATATTTG TCGTACAAAG ATGAAAGCGA nAGA	104
5	(2) INFORMATION FOR SEQ ID NO: 2435:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2435:	
	TITGCTAATC GTTTCACGGA TTGTGGGGAT GGGTAAAGAC TTTGCTAGTG G	51
	(2) INFORMATION FOR SEQ ID NO: 2436:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2436:	
30	AAAnTTAATT TTTGGGGGGC CCTTTTTTAA CCGGAAAATC CAATCGGGGC TTTTAAGGAA	- 60
	TGGTTTTGGT TAACAGGCTT TGGAATTTGG TTTGGCAAAA CAATCCTTGG TTTGGGGTTT	120
	CGGTCCGGAG GGTCCTAATT	140
35	(2) INFORMATION FOR SEQ ID NO: 2437:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2437:	
45	GAAGCGGAAC CACCGTTGTT TTTCTTTTCA GGTCCAATTG AATAAATGTT ATGAATAGAA	60
	TGGATAAAAA TATAATTATT TAAGTGTTAA AGTAAACCAA ATCATGATTT AAGATTATAA	120
50	GAAAGAAAA TTGACTAATG TTAAAACCAA CAATCATATG GGTTGTAACG TTTATACAAT	180
<i>5</i> 0	CATCGTAAAA CTCAATATGC TTAATTTATT CAAAATGTTC GTCAATAAGT ACAATGAAAA	240
	GGAGATTGAT TTTTGAATAA AAAATATCTT ATGATTGTAA TTATAATTTT AATATGATTC	300

	AAGATACGAT TTTGAGACCA TGTGAAGGGA TTAAATATAG	400
	(2) INFORMATION FOR SEQ ID NO: 2438:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(8) 10102011 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2438:	
15	TCTGTTTTGA AAGTTGCAGT TTGGACAGCA CCCGATGATT AGGTGAGTCT TTTGGTTTA	59
	(2) INFORMATION FOR SEQ ID NO: 2439:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2439:	
	TTGGTmAAAC CGTTACAGTT GCAAGTTTTG AAGTGAGTTA TTTTTTGGTT	50
	(2) INFORMATION FOR SEQ ID NO: 2440:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2440:	
40	ATTAAAAATA AATTAAANGT TCCAGAACCA GTTAACCAGA ATATTTACGA	50
40		50
	(2) INFORMATION FOR SEQ ID NO: 2441:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
60		
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2441:	
	TGCTGTTTTG GCGGTTTTTC TCCGTTTGGT TGAGTATGTG GTGTACCTTT TGTC	54
	Idelatifia degalific reconfider ranginiara didinectri idic	24

(i) SEQUENCE CHARACTERISTICS:

55

5	(A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2442:	
	GTTGTTGGGT GTGTGGTTTT GGGTGTTGTG GGTTTGGGGT CTGGGTTCGT TGGTGG	56
	(2) INFORMATION FOR SBQ ID NO: 2443:	
15	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2443:	
	GAGACAAACT AGTCGTCCAG AACGGAATTT AAGTAATCAT AATAATTACG GAAGTGCACT	60
25	TTTGTTTTTG ATTTATCATT GATGGAAATT AGAACAATTT ATCGAATGAT ATTAAAATTA	120
	CATAACATCA TGTTGAATGT GAAATTAGGA TTGAACATTA CCTGTnTATT TGAAAAACCT	180
30	TCAGTTTTTA AATCACTAGT ATCACAAATA AAGCGACTTA AATTCGATTC GTTAATAATA	240
	GATAATGCAA ATTTANGTAG CCCT	-264
	(2) INFORMATION FOR SEQ ID NO: 2444:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2444:	
	CCGTCTTTAG TACGTACGTT GTTTGCGGGG CTTGGGGTGC TTTCTGGGTG TTGGTCATTG	60
45	TATTGGG	67
	(2) INFORMATION FOR SEQ ID NO: 2445:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2445:	
	AGCTGCATTT CTCGTGCAGG CTATCAGCAT CGATATCTGT ACCATTTAGT GATCATGC	58
5	(2) INFORMATION FOR SEQ ID NO: 2446:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446:	
13	AACCAAAACA AACATTTGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA	53
	(2) INFORMATION FOR SEQ ID NO: 2447:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447:	
٠	CACAAATTAC ACCCATTGTT ANTACTAATA CTTNCCTnTT CATTTGTTTA	50
30	(2) INFORMATION FOR SEQ ID NO: 2448:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448:	
40	GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGTCA ACTGGCCTTA	60
	ATGACACTTG AATCG	75
45	(2) INFORMATION FOR SEQ ID NO: 2449:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 71 base pairs(B) TYPE: nucleic acid	
<i>50</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCAGCCTTCA AGTGTTTGCT ATTTGCTTTG GTGTCACAAG CCATTATCTA CGGTCCCGCA	60
5	ATTTAGCCCG C	7:
	(2) INFORMATION FOR SEQ ID NO: 2450:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2450:	
	TGGCGTGAGG AAAAATATCA TGTATTGTTA CACAGTCAAC AGTCTTACCA AATGATAAGG	60
	AATGCTTTAA AAACGGATTT ATCACTTCAT CAAGTTCAAC AAATGATTGA TGTTGCTTTG	120
20	TTAATTGAAC CGGGTATAGG AAGTGTATGT AATGCTTTTG ATCATATGTG GGGATATTTA	180
	AAAAAATGTG CGAATGAAGA AGGAAAGACA ACAATCAAAA CTACTTAAAA GCTGATTTTA	240
25	TTTAATGGnA AAAATCGACA CCCCAACTTT ATTAGATTTT TTAGCAGAAC TTGCCTAATA	300
25	AATATGGAng TCAATATTTA CTACAAAGCC GnGTTTTTAA ACCCCAAAAA G	351
	(2) INFORMATION FOR SEQ ID NO: 2451:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2451:	
	GTGTACCGCC TCGGCTGCG TTCGCGGTGG GTGGTGCGGT CGGTGCGTGT CTGG	54
40	(2) INFORMATION FOR SEQ ID NO: 2452:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2452:	
50	TGCCATTCCA ATGTTACCAT CGTCTTGGTA CTACTATATA CTGCGGCTAT	50
•	(2) INFORMATION FOR SEQ ID NO: 2453:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2453:	
	AGACGTGTTT CCACGGTATG GGATAAATGA AGCACCGACT GATAAATCAA TATAGCCTCG	60
10	TGTTTTTAGT TTACCCGAAC TATCCCTTGA TAATGATTGT GACATCTGCG GATAATATTT	120
	CATTTTCTTA GATATCGTCG AAATATCACC GATTACTTGA AGTCCATCTG TCGTAAACAA	180
15	TTCAATTCTG CTTTGTTTGT TTTTACTTGG GGCGTATGTC ACTTCGGCAA TATATCGTCT	240
	AACTTCAGGT GTCATTTCAG ATAACGCCTT AATCATATCA TCTTCTTTTG TACCTTTGAA	300
	ACCATCCATG ACAGGTGCAT CATTAATTTT GACATCATTT GAACCTTTAA GCAATTTACC	360
20	ATTTTCTAAT AAAGGTAAAT ATTTACCTTT ATATTTCACT	400
	(2) INFORMATION FOR SEQ ID NO: 2454:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2454:	
	AGAAAGAAAT ACCATTTGGA GATAGAGACT CGTGTTATTT CTTAGCGATG GGAGATTTTT	60
35	ATAATAAAGA AGATAGNAAG AAAATTATCA AAGGTTATGA AAATAATTAT GGTAGAGGTA	120
00	TTAATATTCC TCGAGCACAT AGTATATATT TATATG	156
	(2) INFORMATION FOR SEQ ID NO: 2455:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2455:	
	ACTTAGGTGA TATGAAATGT GGTCCGCGAC GATCGTCAGT AACAAAATAA CAGGCAGTCA	60
50	TTGGATTATG TTTAACG	77
	(2) INFORMATION FOR SEQ ID NO: 2456:	

(A) LENGTH: 65 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2456:	
10	AGTGAAATCG CTAAAGAAAA AGATGGAACC TCGGTATCTA ATACACAACT TCTTGAACGT	60
	TTTTA	65
	(2) INFORMATION FOR SEQ ID NO: 2457:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) 10POLOGI: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2457:	
25	TATCAATAAT TGCCACTTGC AATGACTGAT TAATTTGAGG TGCACATAAG CCAG	54
23	(2) INFORMATION FOR SEQ ID NO: 2458:	-
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2458:	
	AATTTATTT CGAGATTCTT CAATATAGAT GTTTCTTCAT TAATTTGATT CTCTAACTCT	60
40	TGCTTACTAC CTAATAGTTT ATCTAATTCA GCTTTAGCTT TITCATTTTC TTTAATTATA	120
	TTAATTTCAT TATTTATGTT CGTmATCGTA TTATTTAGTT CGATAA	166
	(2) INFORMATION FOR SEQ ID NO: 2459:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2459:	
	CCAATGATTA AGCAATACAA TCGTCACTAA AATTACACCG ATAATCTGAA TCATCGTCAT	60
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 2460:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2460:	
	AAATCAAAAA AATGTATAAT GAAAAGAAAA AGAAATTTGG AAAAAATTGG GAAGACGCTC	60
15	AAAAAGCTGG AAAAGCTGTA GGTGAAGATT TGAGTGTnAA TGG	103
	(2) INFORMATION FOR SEQ ID NO: 2461:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2461:	
	TTTATATCAG AATAGAATAG TAAACTAAGG CATTTGGAGA ACTTATTCCA TG	52
30	(2) INFORMATION FOR SEQ ID NO: 2462:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(b) 10103001. Imeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2462:	
40	CAGCAGCGAA TTTTTGACGT CCAGTGTAGA ATGGATGTGA ATCAGATGAA ATATCTAAAC	60
	GAATAACTGG GTATTCTTTT CCATCTTCCC ACTCCATCAT TTCTGAAGAn GTT	113
	(2) INFORMATION FOR SEQ ID NO: 2463:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs (B) TYPE: nucleic acid	
60	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2463:	

	CTAACATAAT TGTTAACACT AAAATATTTA CTACTTTTAG AACTGTGCGA TTAAATACAA	120
	TTGTCAGTAT TGTTATGACT AGGCTAACGA TACATAAAAT AAAGAAACCG TTAAAGACTA	180
5	AAATTAAGCG ATCGATTCCT TGTTGTAAAT CATTGATATT ACCCAAATTA ATAnTTAATT	240
	GGATGCATTT nCCAA	255
10	(2) INFORMATION FOR SEQ ID NO: 2464: (i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2464:	
20	TATGCGACAA TTCGAAACAT TTTATATGCA AAAGGTTATA CAACAGAGAA TGTTGATT	58
	(2) INFORMATION FOR SEQ ID NO: 2465:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2465:	
	TGAATTTCAT TACCACATAT CGGACATTGA TCTCCAATAT TTACAGCAGA TITAATTTCA	60
35	CTTAT	65
	(2) INFORMATION FOR SEQ ID NO: 2466:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2466:	
	CGTGACCTTC AAAGACCGAA CGAGAGAGTT GAAGAGCATT TGCGAAGGCC A	51
50	(2) INFORMATION FOR SEQ ID NO: 2467:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2467:	
	AGTTTGTTAA GTTTTAGTTT ACTAACTTTT CCATTAGATA TTATTAATGA AAAAC	55
5	(2) INFORMATION FOR SEQ ID NO: 2468:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2468:	
	TTGTTGGTAA GGCACTTCTT AAATATCAAC AACGCGATGA TATTTTCATT GGTACAAAAG	60
	TAGGCAATCG TTTAAC	76
20	(2) INFORMATION FOR SEQ ID NO: 2469:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2469: CTTCTATAAT AAAACCATCT GCAATTAAGT CTTCAATAGA CGATGGATTT CTATTATGTA	60
	TCAATGCATA C	71
35	(2) INFORMATION FOR SEQ ID NO: 2470: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2470:	
45	CTTCGTCATT GTATTCGAGC GCCTGTATAG CTTGCTCAAA TGATGCATAA AT	52
	(2) INFORMATION FOR SEQ ID NO: 2471:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2471:	
_	AGAGGTTATG TIGATGTGCT TTATTTTCAT CAATGTCATT AACACAATCA TATTTCTTCT	. 60
5	GTTAATGCAC TGTATTATAT TCAAACGCGC TATCGACAAT TAATTTGn	100
	(2) INFORMATION FOR SEQ ID NO: 2472:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPB: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2472:	
	GTCCCCAGTT GATATAGGAT CACAGTTTAA TATACTTGGT GAGATAGTAA TACTATTATT	60
20	AATTCAAATA GGTGGTCTGG GTATCGTGAC CGTAACCCTA TTGACACTAG TATTTTTAAA	120
	TAGAAAGATA TCAATGAAAA ATAGATTCTT GATTATGGTT ACATGGAATA TTGACGAACC	180
	TGGTGGTGTT ATTAAGCTAA TTAAACACTT GGCTATTTAT AGTTTAGTCA CTGAATTAAT	240
25	TGGTATGATT TGTTTGTGTT TATCTTTTAT ACCAAAATTT GGTATAGGCA AAGGTTTATT	300
	TTTAAGCTTA TTCACATCAG TATCAGCTTT TAATAATGCT GGGATTTGCC CTTTTTAAGA	360
30	ATAACTTAAT AGATTATTCT AGTGATCCAA TTGTCATTAT	400
	(2) INFORMATION FOR SEQ ID NO: 2473:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2473:	
	CTTCAAATAC TAAATCAGCG TTGCTAAACA TACCGTATAC ATTTGATGGC GTTGATAACG	60
	CGTCCTGCGC TTCTGTTAAT AACTTTTCAG TTTCAGCATC TAANATATGA GGACGTTTTT	120
45	CATTAATCAA CTTCAAATCA AATGCGA	147
	(2) INFORMATION FOR SEQ ID NO: 2474:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2474:	
5	CTTTAGGTGC TTGTGGTAAT TCTAATTCAC AAGATCAAGG TAACAAAACT GAACAAAAAA	60
8	CA	62
	(2) INFORMATION FOR SEQ ID NO: 2475:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2475:	
	CCTTTAAAAT CATCTAGAAT ATCTCTTGAG AAAAATTCGA AATCTACAGT	50
20	(2) INFORMATION FOR SEQ ID NO: 2476:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2476: ATAGTGGTTA GTCAATGTAA TTAAATGAGA ATAGAATGGT GATTTCATCT TAGCTTGATA	60
	ATTAGCAGAA TCTTTAAAGA AAATTTTGTC TTDCAAGCCT AAGTTTACAA CGT	113
	(2) INFORMATION FOR SEQ ID NO: 2477:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2477:	
	CGTAACTAAC TCAATTTACT GAAAAAATCG CTTGCGATGC AATAGCATTT G	51
	(2) INFORMATION FOR SEQ ID NO: 2478:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2478:	
	TAGTTGCCGC TACGTTTATA CTCGTATTAA TGAAAAAAAC TAGCAAAGAA TCTAAAAAAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2479:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2479:	
	TCGGACATGA TGGTAAAACC GTATTGGGTA TTCGCACTGA CACCTTAAGG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2480:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2480:	
30	TTCCTAATTA AGGATTAAAA AGGGTTTCCT AATTAGATTA NAATTCCGGG ACCTGGATGG	60
	AAAAAAGTTT TTAACTTTTC CATCTGGTCC CGTTTTTTGA TTTTCGATAT AAAAAAAGCG	120
	CAATTATCTC TAT	133
35	(2) INFORMATION FOR SEQ ID NO: 2481:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2481:	
45	AAATGTTTTG GAAGAACGTA AGAMAAATCA ATCTGAAACA AATGCACGAT ATGAAGAAGA	60
	ACAAGAAAT TTAATGGAGC TTTTAGAAAA TATATCAAAT GAGATTTCTG AAGCTCAAGA	120
50	TACTTATAAG TCTCTGAAAA GTAAACAAAA AGAACTCAAT GCTGTCATTC GTGAACTTGA	180
	AGAACAACTA TATGTTTCAG ACGAAGCACA TGATGAAAAA TTGGAAGAAA TTAAAAACGA	240

	TACTATAGAA GAGAATGAGG CTAAAAAATC CAGACAGGTT CTCGTTAGTT GGAGTTTTGA	360
_	GCCATTGAAA GTATTCnGGG GGCCAATTAA AACCGCCAAA	400
5	(2) INFORMATION FOR SEQ ID NO: 2482:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2482:	
	AAGGTGCATA GTCAACAACA TITACAGCAT CATTTGATTC TGAACTAACC GAAACATTAT	60
	ACTTACCG	68
20	(2) INFORMATION FOR SEQ ID NO: 2483:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2483: ATGAGCCNAC ACAGTGGTGA GGTAATCAAC GGTACAGTGG TTAGTGTGAT	50
	(2) INFORMATION FOR SEQ ID NO: 2484:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2484:	
	CGGAACTCGT CGAATAACTT TTTAGATTCT TCGTTAGCTT TTACATTAGC GAATGCTTCT	60
45	nTGATTGCTT TGTATTCTTC GCTTTCTCTT AAAGCTTGTT CTAATTGATT TGCATAATCA	120
	TATAAATTTA CTGCCATGGT TATAGCACTC CTTGGTnGTG ATGTTTATTA AAACGTTCGA	180
<i>50</i>	TATTACTTTA CCACATCTCG CTTTTTTAGA CAA	213
50	(2) INFORMATION FOR SEQ ID NO: 2485:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2485:	
	GACCAAAATT ATCTTTAGCA CTTATAGGTA TCTTTTTAAT ACTTTGTGAG TTTTTCTATG	60
10	GCATTCCTTT TITAGGTGCA ACGTTTATTT TAAGTTTTGG ATGGCAGCCT TTACTCTTTA	120
,,	ATGCATTACT TTATCTAATT CTTACTATTA TATTATTAGT GAATAGACAA AATGCGATTA	180
	GACCTATAGC GATTATTCCA ATATTTGGTA TAGTAGGTAG TTTTTTAGCT ATTATCCCCT	240
15	TCTTAGGAAT TITGATTCAT TGGATTTAT TTTTCCTAAT GATTCCAnTT GTCCTAGTTG	300
	GATTATCAGC GCCAACCTAT ATACCCAATA AAAATGCTCG TGnCnTTTTA CACACAATAC	360
	AAAGATGGAC CTAGAG	376
20	(2) INFORMATION FOR SEQ ID NO: 2486:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2486: TTGACCTTGA CGGAAACTTT TTTCCAAGTT CTAAAAGTGG GCCAAAATCT T	. 51
	(2) INFORMATION FOR SEQ ID NO: 2487:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
-	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2487:	
	GAATTTTGGC ATACACATAC ACTTTAAAAG ATATTATTGA AATTACAGGT GTAACTAAAA	60
45	GAACTTTACA TTATTACGAT GAAATAGGAT TATTAGTTCC AGn	103
	(2) INFORMATION FOR SEQ ID NO: 2488:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2488:	
	AATTACATTA GCACCAATCC ACACATCATT TTTAATTGTT GTACGGCTAG GTTGGTCATT	. 60
5	AAAGTCTATA AACGTTTnCT TTAAGTTAAA TGGATTATTA TTTAGA	106
	(2) INFORMATION FOR SEQ ID NO: 2489:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2489:	
	TGAATTTGCT TGAGTCGTGC TGCTGATAAC AATAAAATTG CACATGGATA AAGAATGACG	60
20	c	61
	(2) INFORMATION FOR SEQ ID NO: 2490:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2490:	
	GCTCGTATGA TACAAATTCA TAATCTGAAA CTTCTGTCGT TTGTCGAACA TGTGGTAACC	60
35	AATTCTTCAA GATGCTGTAT ATTTCTGCGT AATTTTCGTC ATTCCTGAAT AACCTCAACT	120
	TTAAAATGTC ACCTTGTTTG ATATAACGCA TTAAAAAATA TTGATCTATA TCTCCCTTAT	180
	CTTTAAGATG TTTTACAAAT GGATACAAAT TGTCGATGAT AAATGTATCT TGCGATGGCT	240
40	TATCGATATG AATATGTAAT GCAAACCAGT CTTTGTCATA TTCAATATCT GTATTTTAT	300
	ATTITGGAAT TICGATITCG GGTCCTCGAT AAGATGATIT TITATAAATI GGTGTAACAA	360
	TTTCATACAC ATGATCATTC TTTGATTGAG GGAAAAATGA	400
45	(2) INFORMATION FOR SEQ ID NO: 2491:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GACTGTTTTA TCGCAACTAT TTACACCTAT ATTATCGTTA GTAGGACATC TCGTCGG	57
_	(2) INFORMATION FOR SEQ ID NO: 2492:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2492:	
15	CATTGAACTT GCTTTTGACG TACACCAGTA ATCAATGCCA TAATACGATC CGG	53
	(2) INFORMATION FOR SEQ ID NO: 2493:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(wi) CECUTENCE DESCRIPTION, CEC. ID NO. 2403.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2493: AATACAACTA ACATACACTT ACCCATGTCC GAAGTCCnTG TTGAGGAATG	50
	(2) INFORMATION FOR SEQ ID NO: 2494:	30
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(a) Totoboot: Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2494:	•
40	GCTGTTTAGC TTGCTCAAAT GATGCATAAA TATCTGATGC AACTATCATA TCAGCTAGTT	60
	CATCA	65
	(2) INFORMATION FOR SEQ ID NO: 2495:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2495:	

	ATTAAGCTTT CTAAATCATT GATGTTAGGA GCTAATGTGC TCGATAAGCA GAGTAAAGAA	120
5	GAATTGCTTA AACAAGCTAA ACATATAACA GGTTTAGAAA ATCCTAATAG TCCTACACAG	180
•	TTATHGGCTT GGTTAAAGGA TGAACAAGGA TTAGATATAC CTAATTTACA AAAGAAAACG	240
	GTTCAGGAGT ACTTAAAAGA AGCAACAGGA AAAGCTANAA AAATGCTAGA AATTAGATNG	300
10	CAAATGTCTA AAACCAGTGT GA	322
	(2) INFORMATION FOR SEQ ID NO: 2496:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
20	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2496:	
	ATCAGTGTTA ATTCGCACGG AATTTCCTTC CATTAAACTA ATCCGATCAT ATAATGGAT	59
	(2) INFORMATION FOR SEQ ID NO: 2497:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(a) analysis programmer and the second	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2497:	
35	CTAATTAAGC CAAAAGGGGA AGGGTCCACC AACCCTTGGT TTCCCCCCAT TGCCCGGAAA	60
	CCACCAGNAA GTTTAAAGCT TCCCTTTAAG CCGTCCGATG GGTAGTCCGA ACTTTACCGT	120
40	TCCCGC (2) INFORMATION FOR SEQ ID NO: 2498:	126
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2498:	
50	CACTTTGCGC CAGTTTTCAG TTGAGTGGCA TAGAGTCTGC TCATCAGTTC CTTGCTCC	58
	(2) INFORMATION FOR SEQ ID NO: 2499:	

(A) LENGTH: 90 base pairs

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2499:	
10	TCATGATGCA GACGCAACAG CATTTGGTTA TGAATATGGA CAAATACCAC AGATGCCGGT	60
	AGCATTTCAA TCAAGTAAAC CTTTAATAGA	90
	(2) INFORMATION FOR SEQ ID NO: 2500:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) lorobodi: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2500:	
25	TGCTCAAAGT CGTGTAGACA GCCAACTAAT GCATTTTCAA GATCAGTGAC ATCTCCGACA	60
	CCARAGAAAT CACCGAATAT TTTTGCATGT TCGATTTTAC CTCGTTTAAC ATCARACTTA	120
	ATTTGTACAA ATCCTTTTTC AAATTTTTCC TCGCGTTCAA AGTTATATTT AGGGTTTCTA	180
30	- CCATAATTCC ATTCCCAAGT TCTATATTTG TCGTTACTTA ACTTTTCAAT ATTnTCCCAA	240
	TCTTCATCCG TTAATTGATA TTCTTCnACT TCAGTTTCGC CAAAGATAGT TT	292
0 5	(2) INFORMATION FOR SEQ ID NO: 2501:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Topologi: Tillear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2501:	
45	GGTGTGTGTA GAGGTCGAGA GTTGGGGGGG GAGTAACGTG GAAGTTGCCC GGACAGCA	58
	(2) INFORMATION FOR SEQ ID NO: 2502:	
<i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ATACGGGAGG TATCAGCACG TACGTGCAGT CGGTAATGGA TChAAATACG	50
	(2) INFORMATION FOR SEQ ID NO: 2503:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503:	
15	ATCCCCACTC TTTTTTAAAT GATTTAACCA TATTTTATTT	60
	AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT	120
	CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAN ACCATTCAAA TTCATGAATG	180
20	GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC	240
	TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC	300
	GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC	360
25	ATCARGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA	400
	(2) INFORMATION FOR SEQ ID NO: 2504:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504:	
	ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT	60
40	TACATTITTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT	120
	CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC	. 180
	ATTANTGATG GCATTANCGT TATTTTCTC ATTITTAGGT TTACTGGGTN ATTTGATTTC	240
45	TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG	300
	CAAAATAAGT CAAAATCGCC TITNAAAATT GCATTTTCTA AATTNATTCA TANTA	355
	(2) INFORMATION FOR SEQ ID NO: 2505:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2505:	
_	CCGTTAGTTC CATACCATAT TTTTTTCTAT AAAATAATTT AACATCTAAT TGCCTTTCTA	60
5	ATTTTCAAT AGGGGTAGAT ACAGTTGACT GTGAATAGTT AAGTAACTCT GATGCTTTAG	120
	TAAGGTTCTT TGTTTCACTA GTTACTAAAA ATGATTTTAA AATGTTTAAG TTCAAAGTAG	180
10	TACCTCCTTT AGGGTTCCCT TTTATCGAAT CCTGAATTCT AAGAATTCTG ATTTAATAAT	240
	AATATATnan ATAT	254
	(2) INFORMATION FOR SEQ ID NO: 2506:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2506:	
	AACTCCACCG TGTAGTTGCG CTTCATCGCC TTGAGGATGC GATTGGCGCC GTGCTGCGCG	60
25	GCACGTGCAG ATAGTGCGAG CACTTGGGCA GATCGCGCAC CGCCTCCAGC AGGTCGTCGG	120
-	TCATATCCTT GGGATAGTTC GTTACGANTT GGATCCGGTC GATGCCGTCG ACATCCGAGA	180
30	TGCGGCACAG CAGGTCGGAC AGTCGCGTTG nCCGCTGGCA GTGTCGTAGT GGTAATGTTT	240
	CACGGTTTTG ACCTAGCAGC GTTCACCT	268
	(2) INFORMATION FOR SEQ ID NO: 2507:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2507:	
	AAAAGTGGCT AATATCATCA GCAGAATGTA TAACATAATC GAATTGCAAC CAGCGATTAT	60
45	ACCTT	66
	(2) INFORMATION FOR SEQ ID NO: 2508:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2508:	
	ACCTCCGCTT CAAATGTCAT TGATAGACAT TTAAAGCGGA GGCATGTACA TGT	53
5	(2) INFORMATION FOR SEQ ID NO: 2509:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2509:	
	ACCCTATGAN AGATGAAGTN ATTAACCAAA AACCACGTGT TGTAATATTA	50
	(2) INFORMATION FOR SEQ ID NO: 2510:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2510:	
	TTAACCTATT ATATTAATTT TAGTATCAAT TCTTTCTCCA GTTCCTGCGT CATTTTT	57
30	(2) INFORMATION FOR SEQ ID NO: 2511:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2511:	
40	ACGTGTTCAT AACCCATAAA GGCGAATATG GTAACACCGA ACATCATGAC A	- 51
	(2) INFORMATION FOR SEQ ID NO: 2512:	-
45	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		

	GTANAGCGGT CCGCGCTTAA AGCGCTTGCT AACTTCGAAC AATGAATCTG CGGAACATCT	60
	TGCGAATCCA CGAGATGATC TCATATGACG GGCAGCGAGG T	101
5	(2) INFORMATION FOR SEQ ID NO: 2513:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2513:	
	GGGTAATGTA ATAGTATTCA TCTACATCAT CITGATCATC GTAATGCTGA TTGTACCCTT	60
	CTARATC	67
20	(2) INFORMATION FOR SEQ ID NO: 2514:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2514: CCCGTCGTTT TCGTGnTTTT CGCGGCGTGT CTCCTGTTCG CGCCTCTACT	50
	(2) INFORMATION FOR SEQ ID NO: 2515:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2515:	
	ARGAAAATAT CTCTTGAATA CTGATCGATT GCCATCGAAA AACACTGTTA AATCAAGTTG	60
45	CCCAGTCCAT TGTTGTTCAT CCATTATGAT AATCCTTTGA GTAAAGTGTC GCGTTCAATC	120
	CAATCGATAA CTTCATCCAA ACCTTCGTCG GTTTTTAAGT TAGTAAAAGT AAATGGACGT	180
	TTACCACGAA ATACTTTAGT ATCTTCAGCC ATTTGTTCTA ATGATGCACC TACATANGGA	240
50	GCTAAATCAG TnTTGTTAAT TACAAAGACA ATCTG	275
	(2) INFORMATION FOR SEQ ID NO: 2516:	

5	 (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2516:	
10	CTGCACCACC AATAACGTAA ATACTGTATA TACTAGTAAT CGCTAATACA CCGATATTA	59
	(2) INFORMATION FOR SEQ ID NO: 2517:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2517:	
	TCTGCTACTA CGTATACGAT AGAATGGATT TCTTTTTGAA CCTAAACGTG TTAAACGAAT	60
	TTTAACTGCC ATTTATAAAA TCTCCTTTAA GTCATGTTTT AATTTTATT TTCTACAng	119
25	(2) INFORMATION FOR SEQ ID NO: 2518:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2518:	
•	ATTTCCTTTT AAGTTTTTAA AAATCCAAAA TCCTTGTGGT AGGGCCATGA AAGGGTTGGG	60
	(2) INFORMATION FOR SEQ ID NO: 2519:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2519:	
•	ATAGAAGTGA AGCACGTAGA TTGAAACGAT GGTTAAATAA CGAGAGACAT TTAGAAAACA	60
50	ATAAAAATGA GGAATAATCA ATGATACATG GAATTGGTGT AGATTTAATC GAAATCGATC	120
	GAATACAAGC GTTATATAGT AAGCAACCAA AATTGGTTGA GCGGATTTTA ACTAAAAATG	180

	GGTTTGCTAC AAAAGAAGCG TCAGTAAAGC ATTAGGCCCC GGCCTnnGGA AACA	294
_	(2) INFORMATION FOR SEQ ID NO: 2520:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2520:	
15	TTTTAGGCCG AAGANGTAGT AATTTCCGGT CCTTTAAGGG GCGGGTGGTT AACCATGGCA	60
	ATTAATCCCA GGGATGACCT TACCTAATAA CCACCTAATA ATTACCCGGA CCAAAGGTGG	120
	ARATAATCCC TCCGGTCCTT CCCGG	145
20	(2) INFORMATION FOR SEQ ID NO: 2521:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2521:	
30	TTTTAGTCAC CAAAATTCTC GCATTTAACT GATACGAATG TGCAATAACT AAAAATCGAT	60
	CTAATAATTG CGTTGAAAAA TTTGGCTCGA CAGCACTCAT TACAATTACN AGTGTATCTA	120
35	TATTACTTAC AGGTGGTCTT TTCAACTCAT TTTCCCGCTC AAACACTTG	169
	(2) INFORMATION FOR SEQ ID NO: 2522:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 88 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2522:	
	ATCCAGCCTT TCAACAAATA AATCTGAAAT TCGATGTTCT AAAATTTCTG CTTCTTGATG	60
	TACTTCTTCC CAATTATATT TCAATATT	88
50	(2) INFORMATION FOR SEQ ID NO: 2523:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs	
55		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2523:	
	CAGTAACATC AATCTGTCCT GTAAGCTTGT GGTACTCCGA TACAACCATA AGTCAACGCA	60
10	CCACCAAAAA CGCCTTGGAG CCGTTCTACT TATTAGTCCA AGTTTAGACA TTGAAATACC	120
	AACAACTTTG CANTCCATAG TATCTGAAAA TGTAGACATT GCCTGCAATA AATTTAACNC	180
	ATCATTTTTA TTATGTGGCA TTACTGCTAA TTTAACGTAT TCTGGGTT	228
15	(2) INFORMATION FOR SEQ ID NO: 2524:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2524:	
25	CTCATCCATA GCGCTGGTAT TAGTATAGGT GTCAAACCAT TAGCGTATAT CATATCTTCT	60
	GGATGTnCTC ACATATTCAT AGATGCACAT TTTACTTCTC TCGTACCTTA GTACTGGGA	119
30	(2) INFORMATION FOR SEQ ID NO: 2525:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2525:	
	TACCAATATT AAATTTGAAC ATTATAGTTT GACCATCATA ATCTATCTTC TCTATTTCAT	60
40	TATAACTAAT ACTTCTATAA TAAAATTGGC CATTCATATC TACATTCATA ATTAATCTTT	120
	CATTIGTIGC TATAAATGCC CCTTCAAATT CATTCTCACC TIGAACTIGA TACTCAATTA	180
45	TTCCTAGCAC TGACGGACCC TTTTTTTCAG TTGGAAATAA ATCATTTGGA TTCACATTAT	240
	CTARARTCAT ARTATCCCTC CCACTTARAR CTATARACTA TTCTTCATAG GTATATGARA	300
	TACAAGTGAT TAACTATTNA TNATNAAGCT TAACTTGTAT TCCCTTTTCA AGATAAT	357
50		33,
	(2) INFORMATION FOR SEQ ID NO: 2526:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2526:	
	CACGCGTCCG GCCACCTGGA CATGGCCGAC CTAGAAGCCA AGCTGCAnGA GGCCCAGAAG	60
10	CATCGGCTGC GCCTGGGTGG CCACTGATGG GGCCTTTTCC ATGGATGGCG ACATCGCACC	120
	CCTGCAGGAG ATCTGCTGCC TCGCCTCTAG ATATGGTGCC CTGGTCTTCA TGGATGAATG	180
	CCATGCCACT GGCTTCCTGG GGCCCACAGN ACGGGGCACA GATGAGCTGC TGGGTGTGAT	240
15	GGACCAGGTC ACCATCATCA A	261
	(2) INFORMATION FOR SEQ ID NO: 2527:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2527:	
	CTnTAGAGGA TATGAGTTCC TCATCATAAG AATTTCTGGA TCCTTAATAG ATCTCTTGCT	60
30	ATATATATG TAATAGAAAC ATCTTTTAAG GATCCAGAAA TTCTTAGA	108
	(2) INFORMATION FOR SEQ ID NO: 2528:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2528:	
	TTTTAAAATA CTTGGTAGAA GTTGGAATGG ATTAATCATT AATTATCTCT CAAGATGTAA	60
45	TGACTGTTCA GCACACTITT CCGATATGAA AAGAGATTTG AANACAATA	109
	(2) INFORMATION FOR SEQ ID NO: 2529:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

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	GATTAAATTT GTTATACCTG GCTTGTTGTC ACGATCAAAT TTAATAATAC CATCTGAATC	60
	AGTTACTGCG CTTTTAATTT TTTTAGCTGC AACATTCGGC TCGTCTAATA ATGAAATNGA	120
5	GTTTTTAGCA TTATCATCAC TCTTACTCAT	150
	(2) INFORMATION FOR SEQ ID NO: 2530:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2530:	
	TTCTTTTTGG CCAGTGGCAG GAAGTACGGT CTTATTTGGT GTTATGTTAA GAAGGTATTC	60
20	CCATTTATTT ATCGTTAAAT ATGNATATAG TATAGTAATT TTAATTTGTT GCATCATAAT	120
	ACTAGGT	127
	(2) INFORMATION FOR SEQ ID NO: 2531:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2531:	•
	CACATAATGA TTCGAATTAT TGTTTTAATT AAACCTTTTT CACATATGTA TAAATTTTAn	60
35	AGAGCGCATG CGTGAATATT TTCATTTGAT TCAAAGGCAA AAGATAGCCT TATACTCTTT	120
	TC	122
40	(2) INFORMATION FOR SEQ ID NO: 2532:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2532:	
	AAATAATAGA GCAATTGGCA CATGTAAGAA TGCAAATTGA CTATGGCATC CAGTATTTTG	60
	GTCACAAATG GGTTGTATAT GAGCATGTTG AAAAATAAGT CTTATGnTAA ACACTTAGTA	120

	(2) INFORMATION FOR SEQ ID NO: 2533:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2533:	
	GAGAGCGCC GCGTGTAAGG AGAGCGGCGT TCGTTCGCGT GACGCGAGTG TGGTTCGCGA	60
15	GAAGNGGACC AGAGTTCCCG ATCGAGGCTG TTCGGGTAAA T (2) INFORMATION FOR SEQ ID NO: 2534:	101
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2534:	
	TTGCTCATTA AAGATTATCC CAATCAATAT CATCTATATT TGTTGTACCA CTATTATCTT	60
	TTTCTCTTTC TCTTACTTTG TnCATTGTAC CAGTAGATTC AAGATATATT GT	112
30	(2) INFORMATION FOR SEQ ID NO: 2535:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2535:	
	ATAACGAATC CAAAAATATA GAGAATGACA GTGAAACTTA AATAGGACTC T	51
	(2) INFORMATION FOR SEQ ID NO: 2536:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2536:	

	(2) INFORMATION FOR SEQ ID NO: 2537:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2537:	
	GGATGTACCA CCAGCATAAT AAACAACTTC AAATGGATTG ATAAAGAAGA nACCAGCAGA	60
15	GATAGGTAAT TCATTACCAT GTTCTTCTTG TAGACGTTTA CCTTCTTCAA TCTTTTGCTC	120
	ATTTGCATCA AGTTGTTGTT GTAAGTTATC TCGCTTGT	158
	(2) INFORMATION FOR SEQ ID NO: 2538:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2538:	
	TATATTCATT AAATCCACAA AGCGGTCCCG TATAAACATG GGTTTCCATT	50
30	(2) INFORMATION FOR SEQ ID NO: 2539:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2539:	
	AAAGTATACA TATCACTCAA CTAATCAATA ATCATACTTA CCTTCAACAA ATTCTTTAAC	60
	ATGCAGTGTT ATCCCTTGAT AATATGGATA TTTMGTTAAT CTA	103
45	(2) INFORMATION FOR SEQ ID NO: 2540:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 20:05001.	

	CAATCAATTT GTCTATCTGT TGAGTGGCAA CCTCTAATAA GCCTTTTATA TTGTCA	56
	(2) INFORMATION FOR SEQ ID NO: 2541:	
5 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2541:	
	TGGAAATAAC GAAAGTATTA TTAATTTAAA GCATCTTTCT CCCAATACTT TAATGAGTGA	60
15	TATTGTTTAT ATACCGTATA AAACACCTAT TTTmGAGGAA GCAGAGCGCA AGGGAAACCA	120
	TATTTA	126
20	(2) INFORMATION FOR SEQ ID NO: 2542:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2542:	
	ATCAGTTTCT TCAAAAATAA CTGAAGTATC TGATGCTGAA AATTGGAATA GTTGATGGGT	60
	CGGGnTATTG ATTTTTATCT GATGTAAAAA TCCATAAGTG CCATAAGATG TATATAGTTT	120
35	CTTCATATGA AAGGTCCCCC TTATGTnTTT ATTTATTATA CGATGATAAA CTAGTCATTA	180
	CCACTATTAA TAATTGATTA A	201
40	(2) INFORMATION FOR SEQ ID NO: 2543: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2543:	
	GAACTTTATT ACAGGAATAG ATAAGCACAG TCGTGTTACA CAGACGCTAA ATGCGCGTTC	60
50	GTATG	65
	(2) INFORMATION FOR SEQ ID NO: 2544:	

5	(A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2544:	
10	AGCTATTAAT GGCGCTATAA TTGATACAAT AGTTATGATT AATAAAAAAA TAACCGATAA	60
	CATTGCAATT TTATMATGAA TAAATTTAGG AAATGCAATT TT	102
	(2) INFORMATION FOR SEQ ID NO: 2545:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) TOPOLOGI: IIIIear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2545:	
	AATCTACATC CAGCATGATC NACATCANAG CNGGATTCAC CCTTACTTCA	50
25	(2) INFORMATION FOR SEQ ID NO: 2546:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2546:	
	AACCATTCAA CACACGACAC TAAAGTGCAG TACAATCCTA CAAAACGATT GTTTTTATCG	60
	GGTGGTCTAA CCATTGAATA AATAATGAAT AATGGTAANA	100
40	(2) INFORMATION FOR SEQ ID NO: 2547:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2547:	
50	ATTGAAAATC TITTATCATT TCATACGTGT GCATAATTAA AAAGGTGAAA CCTCTTATTT	60
	TGAGATTICA CCTTTTTAT TGTTAATITA AATTTAATTT TAATGATTAT TTTGTTTCAC	120
<i>65</i>	IGNORITION COLLETTED TOTAGETTE ANTITAGETT INCOME THE ITEMPORAL	120
33		

	(2) INFORMATION FOR SEQ ID NO: 2548:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2548:	
	AAAGTGAAAA TTGGAGGTGT AATTTTGACT AGAACTTATA ATATTATTGG TATCCTTTCT	60
15	TGTCTTATAT CTTTTATTAT TATGGCGTTA CCAATDATTT GGTACACAGC TTCAGCATTA	120
	TGGTTCTTCC CAGGTGCAAT CA	142
	(2) INFORMATION FOR SEQ ID NO: 2549:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2549:	
	CCCAACCCTA CHAACGACAT TACACAATCA GTAACAGATC GGTATTAAGA CTGGATATCG	60
30	TGGCATCTGT TGAGTTAATA TCAACAGTCG TCCAGAACTC G	101
	(2) INFORMATION FOR SEQ ID NO: 2550:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2550:	
	TGTAACCATG ATTTAGATGA CTAAACGTGC TTGCCAACAT GCTTCATCCA ATGCCGAATC	60
45	CTTTAGCTAC AT	72
	(2) INFORMATION FOR SEQ ID NO: 2551:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2551:	
	CAGTAAGAGG ACAAGGCTAT AAGGTGGAGA ATCATGTTTA AAACACTCTA TGCTAGAATT	60
5	GCGATTTATT CCATTACGGT TATTTTATTT AGTGCATTAA TAAGTTTTGT ATTAACAAAT	- 120
	GTTTACTATC ATTATAATTT AAAAGCATCT AATGACGCGA AAATCATGAA GACGCTTAAA	180
	GAAGCAAGAC AATATGAACA ATCAGCTAAA CCAACGCACA TTCAACAATA TTTCCAnACA	240
10	TTTAGGGTCA AATGGAATTA CCAAATAATG ACCATGGATC CATAAAGGTC nTnAGACCTT	300
	TTT	303
15	(2) INFORMATION FOR SEQ ID NO: 2552: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2552:	
25	TTTACTTTAG CCTTTATTGC ATTTGTAATT TATAGAACTG CGAACAGGTG ACTACTGTDA	60
	ATTTATGTGA TTAAAGTTTC AATGATATTT GATTTATTAG ACCATTGCAA AAGCGCAAGG	120
	TTCTCATGTG CTGCTACAGT TTGCGGTCTT	150
30	(2) INFORMATION FOR SEQ ID NO: 2553:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2553:	
	GCACTCGTCA ATAAAGATGA AGCAGCATTT AATCAATATA CGGCAGAATA CAAAAATT	58
	(2) INFORMATION FOR SEQ ID NO: 2554:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
60		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2554:	

	ARANTOGTTG ARTARTCART CATAGCAGTA AGCTATGTHA TATATTTTTA ARARTTGA	118
	(2) INFORMATION FOR SEQ ID NO: 2555:	
5 :	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2555:	
15	ACAACTTCAA AGAAATCATG TCACAAAAAA AGTATTTGAT TTTAATCATA nGTGGCGACA	60
	ATCCGCATAC CAAAGCACAA CCTTTAGTCA ACCAATTCAG AT	102
	(2) INFORMATION FOR SEQ ID NO: 2556:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2556:	
	AGATGCATTA GCAGCATTAG ACGTTAAACC AGTTGGTATT GCTGATGATG GTAAGAAAAA	60
30	ACGTATCATT AAACCAGTTA GAGAAAAAAT TGGGGATTAT ACTTCTGTAG GTACACGTAA	120
	ACAGCCAAAC TTAGAAGAAA TTAGTAAATT AAAACCGGAT TTAATTATCG CTGATAGCAG	180
35	TAGACATANA GGTATTAATA AAGAATTAAN CAAAATTGCA CCAACATTAT CATTAAAGAG	240
	TT	242
	(2) INFORMATION FOR SEQ ID NO: 2557:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2557:	
	TGCACTCATA ATCATCGGAA TATGTATAGA ATCAACTATC ACTTTGCCGT GTTTATCTGT	60
50	GTTAAATGTG TAACCATAAC AGTGTGTCCC ATTTGGATTA TGAATCTCAG AATAATCATC	120
	AAAAATATCC TGAATTTnCA AATTAATTTC ATTATAGCGG NAGCAATGTC TATAAAATTT	180

	TATTTCAA	248
	(2) INFORMATION FOR SEQ ID NO: 2558:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2558:	
	TTTGGGTCGT GATTGAAAAA ATCTAAGGCT AATAAACCAT GTTGTTCTGC GCTTAATAAT	60
15	TGTTTGAGTA TACGGTTAAT AATTAACTCT GTATCATGAG GGTTGACGCG AAAGTCAGAG	120
	CGCATATAAG TCATATAATT CTCGAAGATT TCTCTATCAG TATTGCTTAA TCTTAATGAT	180
20	TTAACATTAT TTTCTTTGT TAATTGCGCA GTACTTTTCA TTGTTACTTA AGCGCTCCTT	240
	TAAAAATGTT TAATTCCAAA TTAAAATGGA AATGATTTTA TAGTATTAAT AAGGTCAATC	300
	ATATCATATT AAACGCATAA ATATAACGAT TAATATTGGA GAGGAAAATG AGGACACTTA	360
25	ATAAAGATGA ACATAATTAT ATCAAGCAAA TAGCTAATAT	400
	(2) INFORMATION FOR SEQ ID NO: 2559:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2559:	
	AAGGGAAATT TAAAAGTATC ATTTGATTAT ATAGATTGGA TTAAATTAGG TTTTGGCCCA	60
40	TCAGGAAAGG AAAACTACTA TATGTACAAA AAATTTGGTA TTTTACCAGA TATGGAATAT	120
	GAAATGGAAG AAATTCGAGC AGTAGAGAAG TATGTTAAAG AGCAAGAGTA GCAGACATGT	180
	TATAAAAGAC TGTGCAAAAT CACCCTCGTT TTACATTTGA TTCAAAGAAG AAGGTAAAAG	240
45	ATAAGANTAT TTGCAACTTA AAAAGTCAAT NAGCTTATCG GTATCCATAC ATCATGGATA	300
	AATGAGTHCA ACTAATTAAC AAATCACGAT ATA	333
	(2) INFORMATION FOR SEQ ID NO: 2560:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2560:	
	GTAAGACATT CACATTTATC ATTTCACCAC AATGGGTTTA CCAACCATGG TTTAACGAAT	. 60
5	CCAAAACTTT GATGCTCGTA TGTCTCA	87
	(2) INFORMATION FOR SEQ ID NO: 2561:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2561:	
	TTGCATTTTG ACGTAAATGA TTAAACAAAT CGTGATTATC TCTTAATTTT CTAACCGCCT	60
20	TTTCAATTTC TAACGGCGTA ACTTCCTTTA GAACAATGCC AAATTTATAT TTnTCAT	117
	(2) INFORMATION FOR SEQ ID NO: 2562:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2562:	
	AAGTCAAACA AAATAAGCAA ACAGACTGGT CAGAAGATAA GTTGAATAAT ATAGCTTTGA	60
35	(2) INFORMATION FOR SEQ ID NO: 2563:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid	•
40 ·	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2563:	
45	AAGTGTTATT ATTGTGATCA TAAAGTGAAG TATTACCTTT TTTATTCGTA ACCCGATTCC	60
	ATGCGCCTTC AACATAAACT	80
	(2) INFORMATION FOR SEQ ID NO: 2564:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2564:	
	AGACATGGGC TTATCAGATA AAGTAAAAGC ATTACCTAAA GGGGGAGGCG GTAAGTCATT	6
10	ACCG	6
10	(2) INFORMATION FOR SEQ ID NO: 2565:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2565:	
	GTTTGTTTAT AGTACCCTGG ATTTTCTTTA TTTCCATCAT GTGAAACTGT GTCAGTGAAC	- 60
	GCTGAT	66
25	(2) INFORMATION FOR SEQ ID NO: 2566:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2566:	
	TTAATTATTT GTGACGTATT ACACGCATTA CTTTAGAAAG TGATTCCCAA AGCGAATTAT	60
	CTTTACGATA AACTA	75
40	(2) INFORMATION FOR SEQ ID NO: 2567:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
4 5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2567:	
	ATATTATTAT ATTGCTTTTT TTCAGTTTGC CGTTGTTACT TTCATAACTT	50
	(2) INFORMATION FOR SEQ ID NO: 2568:	

5	(A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2568:	
10	TTTTAGGATT TGTAGTAGGT GAGCGACGTA TTNNGGATGC AATCCAGAGA ACAATAAATA	60
	TTGAGAGAGA GCAATTCATA ACGCAGTTGA AATACATGTG TTACGAATTG CTTTTATGTT	120
	AGTITITATO ACACAAGTIT TITGATGCAA COOCGIGATA GOGAAACTCA TATGTAGATA	180
15	ATACAGCTTT TTCAGCATCA TCTACATGAA TTCCAAAACA TCA	223
	(2) INFORMATION FOR SEQ ID NO: 2569:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2569:	
	AATAATGCCA TACAGTGAAG ACCATGCGCA TCAATCGATG TCTAGTGTGT ACTACGTC	58
30	(2) INFORMATION FOR SEQ ID NO: 2570:	:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2570:	
40	CGTTTCATTA GTTTTAAATG ATCCCCAATA CTTTTTGTAC CTTCACCAAC TATCGTTCCA	60
	ACACTATCTA CAGCTTTTTC TGTGGTATTT TTAAACAGCG TCTATTTAAT GTCTTATCCA	120
	ATTAGTTTTA TCTCTTAATC CAAATTTATT AGTATGAAAA GTCCAATTTT TAAGAATTGT	180
45	CTAAACAGAT TCCGCAACAA AACCAGCTAN AAACCGTCCA TACTATTGGA ATNAAAACGC	240
	CAATGTTATA	250
50	(2) INFORMATION FOR SEQ ID NO: 2571:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

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	VALV SEQUENCE DESCRIPTION: SEQ ID NO: 2571:	
	AGCTCCTTTC TTTCTAGTTA ATATCATTNA ATCTTGTTTT TCAGTGTCAA AATTACCTGT	6
5	AAAAACAACA TTTTTATCTT TTAAAATAGG GATTACACTT TCCACTTCTA TTTTATTAAT	12
	CTCAGATATT TTCATATGAA TTTTTTGAAA TCCTGAATCG AAAAGTTTAG TTGG	174
	(2) INFORMATION FOR SEQ ID NO: 2572:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2572:	
20	CATGCGGTAG GTATTTCTAA TCTATGGACA AATGGCGGAT TTATGCCAAA TGGTATTGTT	60
	GGTTTCTTCT TTGCATTATC AATTGTAATT GGTTCATACC AAGGTGTGGA ACTGATAGGT	120
	ATTACGGCAG GTGAAACTAA AGATCCTCAG AAAAATATCG TTAAAGCAGT GAATGGTGTT	180
2 5	ATCTGGAGAA TTTTAATTTT CTATTTAGGC GCTATTTTTG TTATTGTTTC AGTGTATCCT	240
	TGGAATCAAT TAGGAGACAT TGGAAGTCCG TTTGTTGCAA CATTTGCTAA AATCGGTATT	300
	ACATTTGCAG CTGGATTAAT TAACTTTGTT GTANTAACTG CAGCAATGTC AGGATGNAAC	360
30	TCAGGGNATT TGCAGTGCGA GTCGTAATGA	390
	(2) INFORMATION FOR SEQ ID NO: 2573:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2573:	
	TAGAGTACAG AACATACGCA AGGAACTCGG AGTTTACTCA CGGGACTTnT	50
45	(2) INFORMATION FOR SEQ ID NO: 2574:	
60	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2574:	
_	TACAATTACA AACGCATCGT GAGATGTTTT AAGCATCAAT GAGAATCTAA CTCTCCAAG	59
5	(2) INFORMATION FOR SEQ ID NO: 2575:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2575:	
	GACACAACGT ATGACGCATG AAGAGTTGCG TGTTGACAAT CAAGATGATC ATAGCCAAGT	60
	TAGTCTAAAT GGTTACACAA AGGGGTCTGA GAAGATCAA GAAGCATTCA CTAATAATAA	120
20	GGATGAGGAA GCAGTTGCTG CTAAAAATCC TGAATCAGAA GAATATAAAG TGAATGAAAA	180
	AATAAAAAA GAACATAAAA ACTTTATTT TGGTGAAGGT GTTTCANGCG GTAAAATATT	240
25	AGCGGCATTA TTATTCGGTA TGTTTATTGC GATTTTAAAC CAAACATTAT TAAATGTTGn	300
	TTTACCAAAA ATTAATACGG AATTTAATAT TTCTGCGTCA ANAGGGCAAG GTTGATGACG	360
	GGATTCATGT TAGTAAACGG TATTTTAATA CCAATTACGG	400
30	(2) INFORMATION FOR SEQ ID NO: 2576:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2576:	
•	TTTAAATCGT ACCTTAAATT TGAAAGTAAT AAGACACACC AATTACCTTC TAACTCTATC	60
	GATAGTITCA AACAAGAAAT CGNTAGTACA TTCAGTTATT TAGAACGCGT TGATTACCAG CT	120
45		122
	(2) INFORMATION FOR SEQ ID NO: 2577:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CACATTGAGG TGCAGTCATA CCTTGTTTAA ATGTCCAAGC ACGTACTTCT T	51
	(2) INFORMATION FOR SEQ ID NO: 2578:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(0, 10101011 111011	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2578:	
15	AATTATGACT ACAGGTCTGA CTCCCCCTTG TTCAGATCCC TGTACTGGTG ATAAATCTGC	60
	TAAATAAACA TCTCCTCGTC TAATCATTCA TTCGTTGAAT TAGAAGATAA ATATGTTTCG	120
	TTGCAATCGC ATGCTTCACA CTCTATCGGA AAAGCTTCGT TCGCTAGGGA GAGATTTAAA	180
20	TCAGCCATTT GTGAATATCC TTCTTTTAAA GATTGTTCTA AGCTATGACT TCTATTTTGA	240
	CTAAAAGATA ACATATGAGA ACCTCCAATT GATTCCAAAA GTTATTAAAT GACCTTTAAT	300
	TACTCTAATG ATAACAAATT TTATATGCAC TGACCATATT ATTTTAACAA TTCATTTGTT	360
25	ACAAAACGGT GGATCACCCA TCATGGATAG AGTCGCGGGn	400
	(2) INFORMATION FOR SEQ ID NO: 2579:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2579:	
	ATAAAAACCT AATTGACTCA TAATCTTCTA ACGGTATATC ATCCACAATC ACAGTATGAT	60
40	TAGGATTATC GTTAGATACA TCTnTCACTG CCTTATCTAA CCCCTCATCA CC	112
	(2) INFORMATION FOR SEQ ID NO: 2580:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2580:	
	CATGANTNTA ACGGATTCAT TCCATATATC AATTGCGTTT GTTATTTTAA TAATGCTATT	60
<i>6</i> 5		

	ACTACAACTT CGATTTAAGC TATATTTATA AAAAAATGCG CCTACTCATA ACATTCTTTG	180
	GCTATTTAAC TTTAATAAGC TAGGGCCAAG TTTGTCATAA GATAAGCGCA C	231
5	(2) INFORMATION FOR SEQ ID NO: 2581:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2581:	
	ACTICGIAAA ATTIATCIIG AGIGGIIGII TCIATATIAA GATICATIIC ATTACACICC	60
	(2) INFORMATION FOR SEQ ID NO: 2582:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(D) IOFOLOGI: IIIIeal	
	· ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2582:	
30	GTCAAATGCT GAGTTCTAAT AATGATGTTG GCCACCATGC ATACAAAAAT GCTAAAAGAG	60
	AATTACGCAA GATTTTAGAT AGCTATCTCG AAAATGGTAA ATTAAAATAT TACGATATTA	120
	TCGTTACAAG CAATTTAGCT ACTAAACATC CGTTTTTCGA GTATGCACGT TCATTTGATT	180
35	TTATCATTGT TTCAGATATC GGTTTAATAA ACGTTGATGT AAAAAGCTGG GGTGAAAAAA	240
	CATITIATCA CITIGATGIA CCIGATGAGC ATGATACAGA nAnA	284
	(2) INFORMATION FOR SEQ ID NO: 2583:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2583:	
50	GAGTCAGTCG AAGTTTGTCG TTCGACCCGT AGAAGTGTAA AACGGCATTG TGAATG	56
	(2) INFORMATION FOR SEQ ID NO: 2584:	
	(i) SEQUENCE CHARACTERISTICS:	
EE	(A) LENGTH: 67 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2584:	
	TCGACTAATG TAATGTAGGC ATTGGACGTC AAATGTAATG TGGGGCAATC CGACGAGATG	60
	ATGGTGC	67
10	(2) INFORMATION FOR SEQ ID NO: 2585:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2585:	
	CGTAACCGCC CCTTGTCCGG GCCCTCCAAG CCTTTTAAGG GGACCCCCCG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2586:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2586:	
35	ATTAGCÁACA ATGTCAGATA ATCGATACCA ACTAATTAGG CGAGAAGCGG TTTCTCATGG	60
	TCTTAGTGGC CTAGAAATTG ATGTATTTGA TTTGCATTCA AATAAGTCTA GACATATTAG	120
	CTCGTTATCA GGTGGAGAAA CTTTCCAATC GTCGCTTGCA nTAGCTTTAG GGTTAAGCGA	180
40	AATTGTACAG CAGCAATCAG GAGGTATTTC ACTANAATCA ATATTTATTG ATGAAGGA	238
	(2) INFORMATION FOR SEQ ID NO: 2587:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2587:	
	ACTGGAAAAA ACCGCnAACA CGACATTGTC AAAACGACGG CCAGTGCCAA	50

5	(A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2588:	
	GRIGCAATTAT ACCACTATAT TTATTTCTTA TACTCCATTT GATTTATAGT TGTATTAATA	6
	CATTGACTCA AAAACTAATT AATCAAATAT GTTTTTTAGA TT	10:
15	(2) INFORMATION FOR SEQ ID NO: 2589:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2589:	
25	GCATAATATC GGATATGCGn GTGTGTCAGT CNCATAGTCG nTGGATTGCG	50
	(2) INFORMATION FOR SEQ ID NO: 2590:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2590:	
	TTANAAATTG CCTnTCCAAT TnTAAGAATC CTTTTTCCAA GGTAAAAAAA	50
40	(2) INFORMATION FOR SEQ ID NO: 2591:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2591:	
	CTTCATCCCT TACTTTTAAT TGTCACGTCA AATAATATTT GTCTTTAACT AGTAATAACT	60
	CCAAATATAT TTAGTTTGTG GTGCTAGCTA TAAACACAAA TGAnTCATAA CACTATATTT	120

	TGATTTTNAA TTATTTATAT	200
	(2) INFORMATION FOR SEQ ID NO: 2592:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2592:	
15	TGCATTAATC ATCTTGGATA CTCTTTCTAC CAAAGTAATG ATTGCACTAC CATGACGACG	60
	ACCAGCAATA GTAT	74
	(2) INFORMATION FOR SEQ ID NO: 2593:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Topobogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2593:	
30	CACCTGCTCA CCTCTATTTT CAAACAATTA TGATTGAATT GAATCATTCT AATTTTTGTA	60
	AAGTTACTTG TTTAATTTAT TATATTTATT AACTCTATGA TAACAAAAAT ACTGTTTGTG	120
	TATAACAATA AATTGAGATA CTCAATAATT TGATAATGTG AAATTGATAC TTTTCAAAAT	180
35	AGTTGAATAT GACAATTAAT GATTAGTTTT GCnATGGTGC TATAAnCAAT ATTTAGCAGT	240
	TATC	244
	(2) INFORMATION FOR SEQ ID NO: 2594:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2594:	
60	ATATGGTATG GAACTAACGG AAGAAGGCTT AGCATACGTT AAATATGCTA AAGTGATTTT	60
	AGATAGTAAT AGCGAATACG AGAGAGAAAT AAAAGGACTT TACAATAAGA AGGTAAATAT	120
	AAGTATTAAC ATGCAAGANA GTCAGTATTT GTATCGCTAC TATAATAAGA TTAGTGAATG	180
55		

	(2) INFORMATION FOR SEQ ID NO: 2595:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2595:	
	AAAAAGTATT AAAAATTGCA ATTCTTAAAC TGTTATTCAT ATTAATATTT CTAGCAAATA	60
15	ACATTGTAAA ATAAAGAAAA ATAATTAnag TATTGCACTT TATTGAAATT TATATTACGA	120
	TAGTAATGCA GAAATTTATA TATGCAAAAT ATTATA	156
	(2) INFORMATION FOR SEQ ID NO: 2596:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2596:	
	TGATCCGCAA ATCGCTGAAC ACGTTCTTCT ATTGGAATCC CTCCATTCAC TTTTAGCTAG	60
30	AC .	62
•	(2) INFORMATION FOR SEQ ID NO: 2597:	02
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2597:	
	TTACCTTTAG nTTTTAAAAC CTGACCCTCC AACCAGCCTA ATTGGTTAAA TGGGGATCCA	60
45	TTTATATAAT CCCAGGCCTA ACCTTCCAAG GACCAACCTA AGGGATTAAT CCCCCCAATG	120
	GCCAAAGTGG GATGGGTAAT	140
	(2) INFORMATION FOR SEQ ID NO: 2598:	
50 55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2598:	
_	ATTAATTGGG GAGTTAAATT AAAAAAAAGG GGTTCCTTCC AACCGGAnCC ATTCCCATTT	60
5	TGGATTAAAA ATTCCCGCCT TTGAAAAAAT TGTTTGCCGA ACCGCCCTTA AG	112
	(2) INFORMATION FOR SEQ ID NO: 2599:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2599:	
	ATACCGCCCC CAGTTCAATA AGAAGCCCTG GATCAGACCT GACCCTGGTA TGGGGGGAAT	60
20	ccc	63
	(2) INFORMATION FOR SEQ ID NO: 2600:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2600:	
	ATACTATGGA ATGCCTTAAT GGTGGATAAT TTCACCAAAT TAATTTTAAA AAC	53
35	(2) INFORMATION FOR SEQ ID NO: 2601:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Topobodi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2601:	
45	AACTAAAGGT TCTAAAGATA CAGTAAAAAT TGAAAATAAC TATAAAATGC GTGGCGAGAA	60
	AAAAGATGGT AGT	73
50	(2) INFORMATION FOR SEQ ID NO: 2602:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2602:	
	CGGTTGCCAG CCAAAACTTG GCAhCCAAGG CAATTATAGC AAGGCACCCA CCTAAATTTG	60
10	CGGACCACCC GGAATGCGGC CACCAAAGTT GGTGGGAGGC CATTTTAA	108
	(2) INFORMATION FOR SEQ ID NO: 2603:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2603:	
	AAGCTTATAA CTATTTGTGT TTGTGATCGA GATAGGTTTG CCTGTAAAAA TGGCCATCA	59
25	(2) INFORMATION FOR SEQ ID NO: 2604:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2604: ACGTCCAAAG GGCCGTTCGC CCCAGANGTG CTGGCAAGGT TCCACAACGN (2) INFORMATION FOR SEQ ID NO: 2605:	50
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2605:	
	GTCCAATGTC ACATTAATTG ATTGGTATAA GCGATCACAA GGnCATAGTG AATATTTTGC	60
50	ACCAGACGGT GTACATTTAG AGTACAAAGG AGTCCTAGCT TTAAAAG	107
	(2) INFORMATION FOR SEQ ID NO: 2606:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	

(C) STRANDEDNESS: d uble (D) TOPOLOGY: linear

δ		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2606:	
	GTTTAAAGCA ATTTGGAAGG ACATTGGTTA AAGGATGGGA GTGGCAAAAT CTGG	54
10	(2) INFORMATION FOR SEQ ID NO: 2607:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2607:	
20	GTTTTAGCTG AAGTTAATGA TGAAGATATC GGAGCTATGG TAATTAAACT AGTTAAACTT	60
	ATTTCATGC TTGATTATGT TTTATTTCAT TCAATTCAAA AAAGCTATAC AACACATATG	120
25	AATGAGCTTA AAAATTGTTT CGATTACATA GCTGAATTAG ATAATCATTA TGCATTAGCA	180
	ATGTATCGTA GAACGCTAGA ATGTTATACT GAACCACAAA TTGATGATTC AAATGATGGC	240
	ATAGTATTCT CTGAGTTAAC ACATCCACTC ATAGCAGATG GCAGTAGCCA ATGATTTCnC	300
30	ACTATCACAN AATATACTGT TAACTGGGGT CGAATGCTTC GGGNTAAATC AACATTTTAT	360
	GGAAAT	366
35	(2) INFORMATION FOR SEQ ID NO: 2608:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2608:	
45	TTCTTAGACG TCAGGTGGCA CTTTTCGGGG AAATGTGCGC GGAACCCCTA TTTGTTTATT	60
	TTTCTAAATA CATTCAAATA TGTATCCGCT CATGAGACAA TAACCCTGTA TAAATGCTTC	120
	AATAATATTn GAAAAAGGAA GA	142
50	(2) INFORMATION FOR SEQ ID NO: 2609:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
55	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2609:	
5	GGGTCGTCAA TTGANGGCAG GTAGAGCATT AAGTCAGAAT TGTAGTAAAT	. 50
	(2) INFORMATION FOR SEQ ID NO: 2610:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2610:	
	ATTGGGTGAT GAATTTTGAC GGTATTGTCA AGTCCAGTGG CTAACTTCCG G	51
20	(2) INFORMATION FOR SEQ ID NO: 2611:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2611:	
30	ACAAACTTCG GACTGCCAAT TACATTTACC TTGGGGGGTC AGAAACAATG GGTGCATAAA	60
	GGCCCGTGTT TCGAAACGGG AAAAAGCCCA GCA	93
	(2) INFORMATION FOR SEQ ID NO: 2612:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2612:	
45	ATGATGTTTT TCGGCTAATT TTTATACTGA ATTTAGTTTA ATTAACTTAT GATATTTT	58
	(2) INFORMATION FOR SEQ ID NO: 2613:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2613:	
	TTCTCACCAT TAACTATGCA TACTCACTTT ACACATAAAT TTGCTTAACA TGCAGAACGG	60
5	AAATAAATCA TTACCACATA TAGATCCCAT CATATATTTA nA	102
	(2) INFORMATION FOR SEQ ID NO: 2614:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2614:	
	TGAACTACAA GACGCTTATA TCATTGACGC ACATTTCTCG CAGTGAAAGA AACACTTGCG	60
20	TA	62
	(2) INFORMATION FOR SEQ ID NO: 2615:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2615:	
	TGGAGCATTT CACATACATT GGCAACCTCA TGGAGCTTAT CATTCTACCT TGGGGnACAG	60
3 5	ATATAACAAC ACTAACGCAA CATGGATGGT GTCGTTGATA ACTTTCAATC TATAGAATTA	120
	(2) INFORMATION FOR SEQ ID NO: 2616:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
4 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2616:	
	CTGTAGTAAA TIGCCAGAAT CCGTATCAAT ACCAGTCTGT GACTGCGTTG GCC	53
50	(2) INFORMATION FOR SEQ ID NO: 2617:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5 5	(c) Grandonidos. Godda	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2617:	
	ACATATGATA TGAGTATATT AACGTTTAAA TTATGGATAC TCTAAAGACA GGCGATTTTG	60
5	ANAAATCAGC AAAAAGTTAT ATGATGTAAG TGGGACAGAC ATACTAGATG TAACACATTA	120
	ACCAAGTG	128
10	(2) INFORMATION FOR SEQ ID NO: 2618:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	is released. The same and same	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2618:	
20	CCTAACCGTG TGTGTATGTA TACCTACAAA AAAATTTACA TTGTGACACT GCGTACGTG	59
	(2) INFORMATION FOR SEQ ID NO: 2619:	
<i>2</i> 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2619:	
	GCCCATGGTC AATCAGACAC ACGGATTGAA CGTTAACAAT TTATGACTTT AACA	54
35	(2) INFORMATION FOR SEQ ID NO: 2620:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2620:	
45	ATCATTGTCA CATTGAGTAG CCGTAAAATG GTCAGACGAT CAATGCGAAC TGA	53
	(2) INFORMATION FOR SEQ ID NO: 2621:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2621:	
	CTAAGTGTCG CCCGAATAAC CGTCAATCCA CGGAGCACAT AGGATCTCCC ATG	53
5	(2) INFORMATION FOR SEQ ID NO: 2622:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2622:	
	TGGGACCGAT AATCATTCGC ATGAACACCT TCCACCGTCT CTTACTCACT ACCTACGGC	59
	(2) INFORMATION FOR SEQ ID NO: 2623:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2623:	
	ATTAAATTGT TATTTCGTCA TTAGGTGACA ACTTGTATGT AGATATTTTA ACATATTTTA	60
30	TGCT	64
	(2) INFORMATION FOR SEQ ID NO: 2624:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2624:	
	CCGTCCCAGA ATATCATATG ACAAATGTTA AGAGACTTGA ATGATCATAC ACGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2625:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2625:	
	GTGGTCACCA GGTACGGGGG ATACAGGGGG TTAATCCCAC CTTGGATAAG TGGAAAACGG	60
5	ATTICC	66
	(2) INFORMATION FOR SEQ ID NO: 2626:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2626:	
	CCACCAATGG GTGGGGGATG GAATAACCCT TAATGCGGTG GTACCCGGGT AATGGTAGCC	60
20	cc	62
	(2) INFORMATION FOR SEQ ID NO: 2627:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2627:	
	CATGTTTTTT CATTCCTTGA TGACGACACT AGAGGTTCCC GTGTTCATTA TTAA	54
35	(2) INFORMATION FOR SEQ ID NO: 2628:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2628:	
45	TTGGCCAATG GGCGATACAC CCTCTCAATT CGATACATAA CTCAAGGCTC AGTCAT	56
	(2) INFORMATION FOR SEQ ID NO: 2629:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2629:	
	TGTCGCTAGG TAACCGTGCA TCGTTCACAG GTACNTATGA TTTCACCNGA	50
5	(2) INFORMATION FOR SEQ ID NO: 2630:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2630:	
	GAAGGnCCCA AACCAGGCGT TAAAGGCCGA TTGGGTTTAA ACCAAAGGTT	50
	(2) INFORMATION FOR SEQ ID NO: 2631:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2631:	
	CGCGAGTGTA TCCGTCGATA TGTCGAGAGG AAAGATTGAA GTGTGGAAGA GTGTTGAGTA	60
30	ACCCT	65
	(2) INFORMATION FOR SEQ ID NO: 2632:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2632:	
	TGAAAGAACT TTAGCTAGAC GTTCGTAAAG GTCTTTTGAC ATAAAGCTAG AGA	53
45	(2) INFORMATION FOR SEQ ID NO: 2633:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	AAAAGCCAAA AGGAATTAAT TAACCCCGGG GTTTAATTTC TAATGGGAAT TTG	53
_	(2) INFORMATION FOR SEQ ID NO: 2634:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2634:	
15	GGTGTTCACA TTCTGAAGGT TTAGAGAGTT AAGATTATAT ATATATAAGT TTTGGGGTGA	60
	TAGATATG	68
	(2) INFORMATION FOR SEQ ID NO: 2635:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2635:	
	CCAATTTCAC TTGGTGCTGC CATTTCGGTC TCTCGTGTAC TTGTGATTGA GGTGCCATTG	60
30	TTCCCGTAGA TGGTTCACAT	80
	(2) INFORMATION FOR SEQ ID NO: 2636:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2636:	
	CTTACACCCA ACTTATTGAC TTATAATCTA TTAAAGTGCC ATTTTACAAT CTGAATCCCT	60
45	TAATATAGCA ATAATTACAA CTTCCGACAA ATGACTTGTT TTATGTGCGT GATTCATCAA	120
	TGAACATCGT AATGCGACnT AATA	144
	(2) INFORMATION FOR SEQ ID NO: 2637:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2637:	
5	TAATTCGGCA ACTAATATCA AGATCATGAT CAAATACTAC TGCCATTTTC TTATACCTCT	60
	TAATGTGAAA TCACTGnCAA CACATAACAT CTTAAAACTT TGAC	104
	(2) INFORMATION FOR SEQ ID NO: 2638:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2638:	
20	CATTCATCCG TTTTTTTGGT TCATGTACAT ACCATTGTTT TGTACACAGC GAAGTCAGTT	60
	AACCTTATAT CCTTGTATAA CAGTTGAAAT CGGCAATATT AAACAGTACT TTCCCAATTG	120
	CTTTCTTCCT CAATTGTGCG ACGGACTGTA n	151
25	(2) INFORMATION FOR SEQ ID NO: 2639:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2639: AAGATCAACT GAAATTCATG TGTTGCCCTT TATTAAGATC ACATGGAAAT A	51
٠	(2) INFORMATION FOR SEQ ID NO: 2640:	21
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2640:	
	TTAGCTAGTT GGTAGGACGG CTACCAGGCA CGTCATAGCG CCTGGAGGGG TC	52
50	(2) INFORMATION FOR SEQ ID NO: 2641:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2641:	
	CAGGCTTAAA CCTGAGTTAG TGCCATTCAT AATTGCAATC CCAAGCGACG GAA	53
	(2) INFORMATION FOR SEQ ID NO: 2642:	
10	•	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2642:	
20	ATGTTTGTCA TCTGGAGCNA TAGAACAGGG TTCATCATGA GTCATCAACT TACCTTCGCC	60
	GACAGTGAAT TCAGCAGTAA GCGCCGTCAG ACCAGAAAAG AGATTTTCTT GTCCCGCATG	120
	GAGCAGATTC TGCCATGGCA AAACATGGTG GAAGTCATCG AGCCGTTTTA CCCCAAGGCT	180
25	GGTAATGGCC GGCGACCTTA TCCGCTGGAA ACCATGNCTA CGCATTCACT GCATGCAGCA	240
	TTGGTACAAC CTGAGCGATG GCGCGATGGA AGATGCTCTG TACGAAATCG CCTCCATGCG	300
30	TCTGTTTGCC CGGTTATCCC TGGATAAGCG CCTTGCCGGn CCGCA	345
30	(2) INFORMATION FOR SEQ ID NO: 2643:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2643:	
	CTTATACGGA TGTATAGGTC GGTCCAAACA TTTGATTTTA GTGGAGAGCA GCCTTTCACA	60
	AATTATGTTC AATGT	75
45	(2) INFORMATION FOR SEQ ID NO: 2644:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TACCGGTTAA TTAACCAGGG CCCCGGTAAA AAAATCCCCG GTATTCCCCA TTCCAAC	57
_	(2) INFORMATION FOR SEQ ID NO: 2645:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2645:	
15	AAAGCAATTC GCCCGATAAG AGTAGAGACG AATTGCTTTT AAGGTTAAAA CAAAGTGAGT	60
	TCAATT	66
	(2) INFORMATION FOR SEQ ID NO: 2646:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2646:	
	CAGTATAACT TGTGACCTAT TTAGAGGGGC ACGGTTGGTA CAATGAGTCT GAAACCGTAT	. 60
30	CAA	63
	(2) INFORMATION FOR SEQ ID NO: 2647:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2647:	
	TAGAACATGG ACCGGTATTT TACATCCTGT ACGCCTAATC TGTTGTAAGT ATCTTTAGTG	60
45	AACCGTTGCT CTGGAATAAC CGCGATTCTG GGCAAACAGT GTGTAAACCG ACTnTATGGG	120
	GATGTGTGAG TAATCATTGT GNACTGTTGA TTCTGTTCTG GAATCCCATT TCACAACACG	180
	ATCTTGGAAG TGCTGTCATT TTAGATGC	208
60	(2) INFORMATION FOR SEQ ID NO: 2648:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(vi) CROUPINGE DESCRIPTION, CRO ID NO. 2649.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2648:	
	TTTTAACCTA AAGAATACTA ACACTAAAAG AGAATGATTC TGTACCGCTT TCCTTTTTCA	60
10	CTCAATAACT TTATATTTAG TTATCCTTAT AATTGTAATT TATGTTAGTT GGTAAATnTT	120
	TACATATATG TATTTGATAT GCTTGTAAAT	150
	(2) INFORMATION FOR SEQ ID NO: 2649:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2649:	
	AGTTTAACTG ACATCGAGTG GTACACAATA GCAATGGTTG TGTGTAAAGT CCTGGTGACA	60
25	ACATATGAGA GTAACATTTG TAGTGATTAT CTTGTACTGA GAGAATTGAC ATCTATGNAG	120
	TTTATCACGT GCAAATAT	138
	(2) INFORMATION FOR SEQ ID NO: 2650:	
30	(i) SEQUENCE CHARACTERISTICS:	-
•	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2650:	
40	TCACAATTGC AAACTTCTGG CACGCACTCA TCTGCGATTT CACAAGCTAC AT	52
-10	(2) INFORMATION FOR SEQ ID NO: 2651:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 65 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2651:	
	GAGTCAAATT AAAATGCCTA TTGGCCATTG TGATGTATAA TCACTTAGTT CACATATACT	60
	•	

	(2) INFORMATION FOR SEQ ID NO: 2652:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2652:	
	GGGCGGTAAT TGTCACCATC ACAAATTGCT ACGTTGAAAC ATCGAGGATT CAAGCTGGAC	60
	GGGCGGIAAT TGTCACCATC ACAAATTGCT ACGTTGAAAC ATCGAGGATT CAAGCTGGAC	
15	AGCAGAG	67
	(2) INFORMATION FOR SEQ ID NO: 2653:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2653:	
•	ACACATCTTA TATGTCTTAC TGATTTAAGG AAAGAATCAG TGGATCAAAC TG	52
30	(2) INFORMATION FOR SEQ ID NO: 2654:	:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2654:	
40		60
	CAAGCTGTAA ACCAAGAATT CCAGCATTAA ATATCTCTCn TGGTATCGGT TGAGATAAAT	60
	ATTCCGTGTG CTCATTAAAT GTAGTAATCT TTATTGTAGT TCCTCAACCT ATGACACGAA	120
45	TATTGCACAA TATTAGTATA GACAAATATT TCCTTTATAA TCTCATTCAA TTTTCTCCTT	180
	TAATTATGTA TCATACATTG TATATTCTCA TATAGACGTT TTGnCATATT CATAGCTTCA	240
	ATATTAGTGC ATTTATGTAT T	261
50	(2) INFORMATION FOR SEQ ID NO: 2655:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
55	(B) TYPE: NUCLEIC acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2655:	
	AATCCTATTA GCACTTATAA TGATCATGAA AAGATGTCAT CGAGAATCAC CTAGTACACG	60
5	(2) INFORMATION FOR SEQ ID NO: 2656:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2656:	
	CGCCGAAAAC AATAAATTCT CGGAACATAG AATTTATCAC ATACCACGCT TGGATTATCA	60
	CAATGGACTG AGTCG	75
20	(2) INFORMATION FOR SEQ ID NO: 2657:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2657:	
	TATTAAATAT GCGGTTGCAT ATATCTACGG CATGATTTAA CCGTGAACCA TGAATCATTT	60
	TAATCGGGCA CGCGTAAAAT GCTCATTGAT CCGCANATAC CACTATATAT CTAATAGCAA	120
35	GCGTCCAGGA TTCTGTGTTT TATAAATTTA AACTAACTGA AACGTGTGTA TCAGTTCACT	180
	CCGnTCGATT ACCACACTTC AA	202
40	(2) INFORMATION FOR SEQ ID NO: 2658:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2658:	
50	CGTACATGTG CATCATGTAT CTACGTCAAT AAGATGATGG GGTCACATGA TTGGACCATT	60
	(2) INFORMATION FOR SEQ ID NO: 2659:	
55		

5	(A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2659:	
10	CTAATCATGT CATGTCTACA ATTATTTGGA GTATTGCTGA CGAAATGCGT TGTACAACTT	60
	TTTCATTCTA GCACCTTGCG GGGGCCCACA AANGAATTGG TCCATTCTCA nCATCAGTGG	120
	GGGGCGCGAA TAATTTCGAA ATTATTCTGC CACTCCCACT TCATCGATTA AGTTGTAACT	180
15	CTACATTACA TTTGTCTTAA ACCATTG	207
	(2) INFORMATION FOR SEQ ID NO: 2660:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2660:	
	TTAATTATGT ATAATACTTA ACAAGATCAC CTGATAGATG TCTAAATATT ATCT	54
30	(2) INFORMATION FOR SEQ ID NO: 2661:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2661:	
	ATTAAAAAA AATGGGGTAA TTTCCGCCAA ATCCCGTTTC CCCCTTGCCA AGGCCAAATT	60
	TAACCACCCT TGCCAAATnA TTAAGCCAAA TTTTCCGATA TTTGTTTCCG TAATGTTTCT	120
45	TTAATTAATA	130
	(2) INFORMATION FOR SEQ ID NO: 2662:	
<i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	MANDIAMANE CASTETATTE MANANGGTGA MANATOGTGA COCAGCGTAM MINATITAGTE	60
	TCTGGTAGGG TAAATCGCGT TGTGGGTTTG TCACATCAGG AACT	104
5	(2) INFORMATION FOR SEQ ID NO: 2663:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2663:	
	AAAAAGATA AAAGGACTCG AAAAACTCAA AACTTATTnT AGATAGTCAT CGTGACAAGA	60
	AACAAACATT TAACTAGACT AAGAAAAATG CTTCGATTAA AAGGCAGACT CATCA	115
20	(2) INFORMATION FOR SEQ ID NO: 2664:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2664:	
	GCATGCGCCA CGGTGTCTCA GCAGAGTGAC TGCCACCTTG TGTGCGCAGA GTCTGCGCCT	60
05	AGTACAGTCA GGGTGAAACA CnCTATACGC ATTAGGTACA GTACTTCCTG TCTCCGACTT	
35	GAGTAGAACG TGACATATCT ATCAGCATTC ACTCGAAAAA GGGA	164
	(2) INFORMATION FOR SEQ ID NO: 2665:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2665:	
	AATTACGCAA ThTCCCTGTC TTANTGAAAG GAATTGACCT GTTAATTCGT	50
50	(2) INFORMATION FOR SEQ ID NO: 2666:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(C) SINGEDENTEDO. GOUDIE	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2666:	
_	ACAATTCAAT AGAATTTACC CGTAACAGCG TTGCACTGCA CTCAAGACGG CTGACGTATA	60
5	GCAC	64
	(2) INFORMATION FOR SEQ ID NO: 2667:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: S6 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667:	
	GTAGAACCAG CGACGGCGCG GCGGCTGAGC AACATCTGAC TACCTATCGG CCGCGC	56
20	(2) INFORMATION FOR SEQ ID NO: 2668:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2668: GGATCGATTG ACTACATGAC GTGGnGACGC AATTATACGG ATAGTCCACT	50
	(2) INFORMATION FOR SEQ ID NO: 2669:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Topologi: Tilleal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2669:	
45	GCAAGATCGA ATTACAATCA CGACGATCAA CGCACGTAAT CATCTCTGAT CACAGTAA	58
,,,	(2) INFORMATION FOR SEQ ID NO: 2670:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2670:	
	ATACCAGCCA GACTTCGATC AACAGTGTTC AACTGCATTG CCCAGTAAGT TGGATAGCTC	60
5	GCACATAGTG CTACAAGTTA ACATATACAn CGAGTTTGTA TCTCAAGCTT GAAGCTTGAC	120
	TACC	124
10	(2) INFORMATION FOR SEQ ID NO: 2671:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2671:	
20	CGCTTACTGC ATAAAAGCCC CTAACACCGG GGCACTACGC TCGTTCGCCG GCTT	54
	(2) INFORMATION FOR SEQ ID NO: 2672:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2672:	
	TCAGCGATTT AACACTAATT CTTCTAGCTA TTCTCTGTAT TTGGACGACG A	- 51
35	(2) INFORMATION FOR SEQ ID NO: 2673:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2673:	
45	GATAAGTTGT ACCATATTTC GATGCAATTC AATGGACAAT GAGGTCACCT GGCTTGT	57
	(2) INFORMATION FOR SEQ ID NO: 2674:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2674:	
5	TCCTTTGGCC AATTTTTCCA AGTTTTAACC CAAACGGCCC GGGTTGGGTC CCCAATTCCA	60
	ATCCAAAATA ATTTTA	76
	(2) INFORMATION FOR SEQ ID NO: 2675:	
· 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2675:	
	TCCGGGAACC TTACCCAGTG GCCCTACCCT ATGGGTTAAC CCAACCAGTG GGGCCA	56
20	(2) INFORMATION FOR SEQ ID NO: 2676:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2676:	
	TGCGGGGTCT CGTGCCGCCG TCTGCGGTGG TTGTTTGT	60
	GCCAGCT	67
35	(2) INFORMATION FOR SEQ ID NO: 2677:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2677:	
	GGACAGAGGC CTTGACCCCC CCACAATCCT GATTCACCGT AAGTTGCTCT CCCCC	55
	(2) INFORMATION FOR SEQ ID NO: 2678:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>	(5), 14142411 2211211	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2678:	
	AAATTGGGGC TTCCATCCCC ATTCCAAATT ATTAAAACCG TTTAGGGGCC TTATTGGCAC	60
5	CATGG	65
	(2) INFORMATION FOR SEQ ID NO: 2679:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2679:	
	ATTTTGGGAT TAAACCCTTA ATTAAAATTG GCCGGGAAAA GGAAAAGGCC GGTTGGGAAA	60
20	AGGCCAAGGA AAAGACCTTG GGANACATTA AAAACCTTGG GCCAAGGCCT TCCAAAAACC	120
	GGTTGGTTTT TATTTTGGGA ACCAAATTGG GGGGCCGGGA TTGGGCCAAA ACCTTG	176
25	(2) INFORMATION FOR SEQ ID NO: 2680:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2680:	
35	GCCCCAAAGA ATTCAAATAA CCnTTCGGAC CCGGTAATGG CCACnTAATT	50
	(2) INFORMATION FOR SEQ ID NO: 2681:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2681:	
	TGTGCATTTA TTGCATAACC TATATATGTG TGACCGATAT TTAGTGCGCA CTTCAATGGT	. 60
50	GCG	63
	(2) INFORMATION FOR SEQ ID NO: 2682:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2682:	
	TTATCCAAGC TTCCGGATAG TTTCAAGAGA AACCAATGAA ATCCGTTATG GGACCAATGG	60
10	GT	62
	(2) INFORMATION FOR SEQ ID NO: 2683:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2683:	
	AACAGCATTC AAGTGAGTTA CTGGGGTTTA TGCACCATCA TTGGATATCT GCACAAGGAA	60
25	TTTCAACGTG	70
20	(2) INFORMATION FOR SEQ ID NO: 2684:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2684:	
	CTTAAAATTC CCCAGTTTCC TTCCTTTAA ACCCCATGGA ATTATCCCGG CCAAAAATGG	60
	ACCATTAT	68
40	(2) INFORMATION FOR SEQ ID NO: 2685:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2685:	
	TTTTAACAAA ACACCTAGAT ATGTTCGCTG ATCAGAGATG CCTGGTGACC GGTGATCC	58
	(2) INFORMATION FOR SEQ ID NO: 2686:	
55		

5	(A) LENGTH: 87 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2686:	
10	ATCCATCCTT ATAGGCATTC ATCCTTTAAC ACCAACGATT TACATTATGG ATATAACGAC	60
	TTGAGGGGGA ACGTGGGGTC CATCCTA	87
	(2) INFORMATION FOR SEQ ID NO: 2687:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2687:	
25	ATGCTGGGC GCTTTACGTG GCCACATTAG GATTATGGCA CTGAAGCGTA	50
	(2) INFORMATION FOR SEQ ID NO: 2688:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2688:	
	AACGGTCGTA GGCAAGGGAC TCCCCCCnGG nGCTANATGA ACTGGTCGTA	50
40	(2) INFORMATION FOR SEQ ID NO: 2689: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2689:	
60	GCTAGCATCC ATGGCTCCTA TGCCGAAGCT GAGTAGACTT AGGTGACGGG TGCGTGACAA	60
	(2) INFORMATION FOR SEQ ID NO: 2690:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2690:	
	ACTTARARA GGARGATTAG ARRATTCATA ARRARATTTT GCTGGGGATT CTTGATCCCA	60
10	TGGGCCCATn TCTGGATTTA GGTTATTGGG TTGGCCAGCC AGGTTAGCGG GGCCCCCATT	120
	CTTCCAGGCT CGGTTTCTCC CAGGAC	146
	(2) INFORMATION FOR SEQ ID NO: 2691:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2691:	
25	ATTGGTGTCT AGATCATTTA ATACTAAACA TACAACACGA CTAATTCCAT TCA	53
20	(2) INFORMATION FOR SEQ ID NO: 2692:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2692:	
	TATTGAATTC AAACTATGTA CTATTTCCTA AATAATACAA TAAAAACGAC TACCATACTG	60
	GCCAGAAATA TATTTTATTT GTTACACATT AATTTCAnTC CTCCATAATT TGC	113
40	(2) INFORMATION FOR SEQ ID NO: 2693:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2693:	
	GACTTATGTC CGTGTTCCGC TGAAGGCACG TCACGTAAAC TACCCGGTAC AGCT	54
	(2) INFORMATION FOR SEQ ID NO: 2694:	

5	(A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2694:	
10	CTTCAGCATG AAGAAGTCGC GTGATATACA TCATATCGAT ATATACCGAT TATATCATCA	60
	GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA ATTTGTNACA	120
	ACGCCGAGAC TCAATGGCAT CCTGTAChTG ATCTATGCCG GAAAACACTA GTCTATATGC	180
15	CCGCAGACGT CCACTATATG CATC	204
	(2) INFORMATION FOR SEQ ID NO: 2695:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695:	
	ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT	. 60
30	GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA	112
	(2) INFORMATION FOR SEQ ID NO: 2696:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696:	
	TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC	60
	GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT	120
45	AGCACTCATC TATAGTACTC AAATTCAG	148
	(2) INFORMATION FOR SEQ ID NO: 2697:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2697:	
	CCTATAATGC TAAACITCAT ATATCTCTTT GGCAACTATC TCCCTTCTAT TACCAAAGTT	60
5	ACGATAGCAA NACAATAAAG CAAGCATGTC ATGCTTACTT C	101
	(2) INFORMATION FOR SEQ ID NO: 2698:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2698:	
	TTGATAACAT TTGAAAAGCT GCTCCGATAT CAGCAACCAT TTCATCGACC ACAATATACG	60
20	ACATAGTCAC AAAACTGATT AGAAGACACC AATTGCTGAT TATCAAATCA CAAATTTAAG	120
	nTGAGATTCA A	131
	(2) INFORMATION FOR SEQ ID NO: 2699:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2699:	•
35	GATAGCGGTT GTTAATCAAA CGATGGTACA TGCTTACATG ATGCGCCATG TTTGATAACA	60
	GCTCTCTATG ATTACGATGG AAGAATGGTT TATTTCATCT CAATTATTCC TATTAAATGn	120
	AACATGCCCT AGCAAACGGA TACAACACAA TCACAACATC ACTTTGAAAT TGTTAAACCT	180
40	GAGAACCACA TACGCGNAAC AC	202
	(2) INFORMATION FOR SEQ ID NO: 2700:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2700:	
	TTCGAATTTA ACAAACGTAT CACGCCATAA AGGTTGTATA TGTTGTTTGT AAATTC	56

5	(A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2701:	
	TATTGCGGGC TTATTAGTAC ACGATCTATA TGATGGTCAA ACTTATGTCT TTCATATTCA	60
	AGTGTGACAT TGTGCGGTGA TTATATTTAC GCGTCGTTAT CTACGAACGC CACATTAAGA	120
15	TTCGAAACTG ACAATCAACT CATAACGCCA TGGTCCTAGA AAn	163
	(2) INFORMATION FOR SEQ ID NO: 2702:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2702:	
	TANACAATCG TAATCGAGTC AATGATGTGA ATTGCCCACG TGAGCGCTAA GAATGCGACA	60
30	TTCCACACGA TAAGGCAGTG CGCATGCGCA CTGACCTAAT AACACTGAGG ATGAGTACTA	120
	(2) INFORMATION FOR SEQ ID NO: 2703:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2703:	
	CTGCTTGATT AGGATCGTAT TTATATGAAG ACTGTGTTCC ATAATGATGT GCGTTTTGGC	60
45	TGAAGTCCCT TAAATGTACn TGTGTATAAA TGCTATAATT TAG	103
40	(2) INFORMATION FOR SEQ ID NO: 2704:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·

	TCTATAACGC CTCTCATCGT TTGGTCACAT ATTACCATTA TTCATTTTAT GTTCTCGATA	60
	ATTGTATGCG nTGTTTCTCA CTGTCATCAC ATTGATACAA CTCATTGTCA CTTTATACGA	120
5	TTCACACACC TCGATACGAG TGATGATATA TGACAAAGCT	160
	(2) INFORMATION FOR SEQ ID NO: 2705:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2705:	
	TTATTGTTTA AGATGGTTAA ATGTCATCAT ATAACAnTTA ATTTTTAGCA ATTCGATATG	60
20	CCTATAACCT ATAAATTTCA CGTCAACAGA AAGTGACAGG CATACGGATG TGTGAA	116
	(2) INFORMATION FOR SEQ ID NO: 2706:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	<u></u>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2706:	
	TTACACCTGC AGTGTATGGA CTATGGCTAG ATACAATAAT TTTAGTCATC AAnCTACATC	ē0
35	ATACAAACTT ACGACTTACA CATATCTGCT TCTALATCTT CTAACTGATT AAAGCTCGAC	120
	ATCGGAAGCT ATTCTAAATT ATTATCATAT ATCTAACTAA CTGACCTAAT ATATACTACC	180
	ATAAATAACC CGCCTCAAGG TTCGCATCCG CATATAATGC TTAGAAGTC	229
40	(2) INFORMATION FOR SEQ ID NO: 2707:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2707:	
	TCCATATCAA TCCTGAAAGT ACACATATAT CGTACACCAT ATGGTACAAT TTCCTATAnT	60
	ACACATCACG CATCTTTCAA GACACATGTT AGGCGCTGGT CGGTGTATCT CAGAAATGCA	120

	(2) INFORMATION FOR SEQ ID NO: 2708:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2708:	
	GGAACTITTC TGATTAAGTG TTCACACGCC AACCATAACA TGTATTCATG CACACAATTG	60
15	TTGCTAAnCT CACTAACAAC ATACGACCAT TTTACTTTCA ATACATATGA TCCGTATAAC	120
	TCGAATTCHC TGCTTATAAA TGACCATTTT GACGTTCACA ATGTTAAACG ATTGGAAATT	180
	TTAAAGTTAG CATGTCCACA TCCGAGCAGT AACTATGCCG TACCATTTGT ATA	233
20	(2) INFORMATION FOR SEQ ID NO: 2709:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2709: TTGTACCTAC CAACGAGGAT ACAATGGATG TCACACGAAA ATTGGGATAT AGATGTCCCA GT	60 62
	(2) INFORMATION FOR SEQ ID NO: 2710:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2710:	
45	CTTTAAAAAG GATAAATGAT TGAGADAAAA ACCCATTCGA AAATCATGCT GCTCATGCTG	60
	TAGACTTATC GTTTGGACAC TCGCGTAAGA GCGAGCAGTG AAAT	104
	(2) INFORMATION FOR SEQ ID NO: 2711:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2711:	
	GTCCAGAATA TTAATCTGAC ACAACCATTT TAGCNGGTGG ATTAAATATA TACGACCTCA	60
5	CCGCAAGAAT CTCTATTTAA CTTAACCTAT CATGAATAAA CTGGCGCTTG TGATATCATA	120
•	TGAAGATTAG CGAAAGATAG C	141
10	(2) INFORMATION FOR SEQ ID NO: 2712:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2712:	
20	TGGTATTGAA TAGCAAAATT TTGACACTAT TTGCATACTC AATGATACAT CATATCGTTA	60
	TATGGATTTT TATGGTCATT AATGGTAAGA ATTTGATACG GAATATTGGC AGGTTTGGAA	120
	ATCAAATAAT ATGAGAAATT GTATTAACNA TTAGTCAAGT TAACGCTCAT AAATAGACTC	180
25	ATChCGCGCT ATAACGCTTA CC	202
	(2) INFORMATION FOR SEQ ID NO: 2713:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2713:	
·	TTGAACTGTC TAAGACTTGG ACGCTAAATG AATGCGTTGA TACAAACGGT GAATCC	56
40	(2) INFORMATION FOR SEQ ID NO: 2714:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2714: CATGACCGAC ATCAGGTGCA AACTCCCTCA TTAATCTGGG AAAACTGTAT CCCGGTAGCT	60

	(2) INFORMATION FOR SEQ ID NO: 2715:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2715:	
	CCTATAACTA CTCAATATTG CAATTACACA TCCTCACTTT TGTCAATTGT TTGACAATCn	60
15	AATACACGTT ATGCACAACT CCATTTTAAC GGAATGGAGA GCACATATGG ACAGTAAATT	120
	TAAA	124
	(2) INFORMATION FOR SEQ ID NO: 2716:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2716:	
	GGAATATGTA CTATTATCAT TTGATGTTAT TACTCATATT TTTTGTAATG AATGCTATCA	60
30	CCTACAAAA ATTTACTTGA AACAGTAATA ATAATTAATT ACCACAAACC ATGATAAATT	120
	TAATANCTAA TCTAAAATAT CGCATGTTCA NAGCCACAAG ATATAACGCG TTCCGTAGAT	180
	GGAACTAGAT AGTATAAGGC GCCGTGGAGC CTGGCCT	217
35	(2) INFORMATION FOR SEQ ID NO: 2717:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2717:	
	ATGACATACG CGCATATACA TGCTATCCCG AACTAATATT GATGCGTATT ATGTAATTGG	60
	AGCGAACACT CA	72
50	(2) INFORMATION FOR SEQ ID NO: 2718:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(vé) anarman programment and an area	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2718:	
	CATATCATCA CTATATCCAT TGCGTAATAG TGATGATATT GATTGGCATA ATGGTATATG	60
10	GCAGATACGA TAACATAACH AACACCTCGG ATAATTGCTA TTAGCTGCGA AGTTATCGTG	120
	CCTGATTTAA CGATGTAGA	139
	(2) INFORMATION FOR SEQ ID NO: 2719:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2719:	
25	CTCTATCATA TCTAGCCATA TGCATGAGAT TATCGTTTAT CTCGACACGC TCTTAAAAGG	60
	CGACACCGGC ATATGATGT	79
	(2) INFORMATION FOR SEQ ID NO: 2720:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2720:	
	CAATCACAAT TGAAATTACA CAAATACAGC CCATTGCATG ACACAGACCA ATC	53
40	(2) INFORMATION FOR SEQ ID NO: 2721:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2721:	
	CGCCCGAGGC TACCATTTTA CCATAAAGAC CGGTCTAAAT CCTTCCGGTT TCCATGGGCC	60
	ATTTGG	66
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2722:	
	THECTEGECG AAAATGACCE AGAGEGETGE EGGCACETGT CETACGAGTT GEATGATAAA	6
	GAAGACAGTC ATAAGTGCGG CGACGATATC ATGCCCCGGG CCCACCGGAA GGAGCTGACT	12
15	GGGTTGAAGG CTCTCAAGGG CATCGGTCGA CGCTCTCCCT TATGCGACT	16
	(2) INFORMATION FOR SEQ ID NO: 2723:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2723:	
	CCGGGCCAAG CTGGTGATCA CCGATGTGGA GCGCCAACAT CGCATCGAGG AAAT	54
30	(2) INFORMATION FOR SEQ ID NO: 2724:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2724:	
40	ATCGGTGATC ACCAGCTTGG CCCGGGACAA CTGCAGAGCG TGCAGCAGGA ATTC	54
	(2) INFORMATION FOR SEQ ID NO: 2725:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2725:	
	AAAACCATTG TCCACCTTTA GAAAGCTTTT GTTTTGGGAA TACCTAAACC GTGGTTAATG	60
55		

	(2) INFORMATION FOR SEQ ID NO: 2726:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2726:	
	TTTAGGCCCT GTAACnGnTT GCCGnTTGGn CCGTGTGTAT ATCGGGGGAA	50
15	(2) INFORMATION FOR SEQ ID NO: 2727:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2727:	
	GGATCATTAA ACGTGTATCA CCATCCAGTT TGCAAGACGG ATAAACTGCT GCAACG	56
	(2) INFORMATION FOR SEQ ID NO: 2728:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2728:	
	ACCCATGGAG AATTAAATTT AAAAACCGTA TTCCGGGTGG ATGCTGGGTG GGTAAGTTGG	60
40	CCATACTGGG	70
	(2) INFORMATION FOR SEQ ID NO: 2729:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2729:	
	ACCACCTTCC CCAATAAGCT GGCCTAAAGC CCCATAATGG GCCATGGTGC GGCC	54
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2730:	
	TGTTTGGGGA CCTTAAATGG TTCCAAATTC CAACCACCCA CCAAAAGAAT TCCAGTTTCC	60
	AATTAAGCCA GCCA	74
15	(2) INFORMATION FOR SEQ ID NO: 2731:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2731:	
	AAGTTGGGGA TTAAGGCCAG TTATGGAAAG GATGGATGGT CCATTTGGGC TTATTAGAAG	60
	AGCATT	66
30	(2) INFORMATION FOR SEQ ID NO: 2732:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2732:	
40	TTTGnAAAAG CCnGTAAGAG TATTTGATTT TGTTGGAGGC CAAACCAGAA	50
	(2) INFORMATION FOR SEQ ID NO: 2733:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2733:	
	AGTACCAGCG GACAATTCGG ACCCAACTTG GCAATTTGnG GTTTTGGACC AGGAAATAAA	60
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 2734:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2734:	
	CCAGGCTGGC AGTTTTTCTA AAATGGTGGT AGGAAAATTA nCCAAACCAT TTAGGATGGC	60
15	ATGGTCTTCC ACGGATGGCG GCCGTTAACC CCAAAAAAGG CCATTCCATT	111
	(2) INFORMATION FOR SEQ ID NO: 2735:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2735:	
	•	
	CGTATGGGAT GGCCATTCTG ATGACACACA ACGGTTAGGT TAGCAACGTT GTCAAA	56
30	(2) INFORMATION FOR SEQ ID NO: 2736:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2736:	
70	CAATCCGGGT GTGCGGGCGT GTGTACAAGA CCCGGGACGA TTACCGACAT	50
	(2) INFORMATION FOR SEQ ID NO: 2737:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(2) 1010B01. IIIIGI	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2737:	
	TAACATTTAT TGTGGAGAAA GTNAGGTATC GTGGTAGTGA GGATTGTGTT	50
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2738:	
	TARATTTARA CCCGTCCCGG TTTCCCRART TTGGRATTTT TTGGRACCCC TGT	5
	(2) INFORMATION FOR SEQ ID NO: 2739:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2739:	
	ATACCCACCT TGGATTCTTA ATACCCCAAA AAGGCCGGGG CAACTTGGCT TAAAAAACTG	60
25	GCTTGTTTAA ATTGGATTTC CGGCT	85
	(2) INFORMATION FOR SEQ ID NO: 2740:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2740:	
	GGAAAGTTTA GTAGTTTAGA GTCGAAAAAT TAGTTTTCTA GTGTAACGAA TCCGGACCCA	60
40	AATTTTTTC	70
	(2) INFORMATION FOR SEQ ID NO: 2741:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>60</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2741:	
	CGCGCCAATT TACCTGGCGC AGCAGACGCT CAACGAGGAG CACGGCAGCT GCG	53
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2742:	
	TGAAGAAATC GCACACACTA TCGAACGCAG ATCGCACATC GAATGCATCA GAATCAGCTC	60
	(2) INFORMATION FOR SEQ ID NO: 2743:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2743:	
25	TATCACCTCT TTTGCATATT ATTAGAATAT ATAATGATCT TTATAGAAAG GAAAGAAGAA	60
	GAGTTATCAT NGCGATATCG CCCAGCGCGT CGTACACTAT GCCATGAATT ACACAATCAT	120
	GCCTC	125
30	(2) INFORMATION FOR SEQ ID NO: 2744:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2744:	
40	GAATTTCCCC CGAAACCGGG AAAAATTTTT CCCAACCGGT GGCCTTCCCC CGTTCCCGT	59
	(2) INFORMATION FOR SEQ ID NO: 2745:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2745:	
	TTTTCCTTAA GTTAGTTTTT TTATTGGGCC AAAACCGGCC CCAGGAATTG A	51
<i>55</i>		

5	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2746: TAATTIGGTC ATAATGTTGT TTCAGATGAA ATGCTAACAA TACACTGATT ACAGT	55
	(2) INFORMATION FOR SEQ ID NO: 2747:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2747:	
25	ATGGTGGAAT GGGATTTAGG TGGATGGCCC CCCCAACCAG CCGGTCCTTT TTAAGGAACT	60
25	TTGT.	64
	(2) INFORMATION FOR SEQ ID NO: 2748:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2748:	
	AACAAGAGTT ACATTGGTTG TGGAAATCAT CGGTTTTAAT TAGTCCAAAA GGATGGATTC	60
40	AATCGGTAGG GGGGTAAG	78
	(2) INFORMATION FOR SEQ ID NO: 2749:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2749:	
	GCAAGTGGCG GAGTCACACT TATAGACAAG AAGTACGACA TCTTGTATGT GGTG	54
CC		

5	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2750: TATTTAGATT CAAAGCATCA AATTGGTTTC GTACCCTTTT GCACATCGGT TGGGATAA	58
	(2) INFORMATION FOR SEQ ID NO: 2751:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2751:	
25	GGAAAACCCC CCAAATTTTC CCCCCCCGTT GGGAAAAGAG TTCCCAAAGT TGGAATTAGT	60
	TCCCAAACCC GGGAGTTCC	79
	(2) INFORMATION FOR SEQ ID NO: 2752:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2752:	
	AGAACCGAGA GATAGTGCCG AGAGAGCGAG AGGTTTTAAT AGAGATGTTT GGCCGTACTA	60
40	GTTAGCCG	68
	(2) INFORMATION FOR SEQ ID NO: 2753:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2753:	
	ATAATCTATG GGGGGACCGT CTGGTAAGGA ACCTGGTTGC CCTGCCAATG AAGCCACCCT	60
55		

	(2) INFORMATION FOR SEQ ID NO: 2754:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2754:	
	ACAAAGGTTT TACGCCCAAA TTGTTCACTG GCTAACTGGG CGATGGTTAG TATTGGCAGC	60
15	GCAAAAGTGG CAGGGG	76
	(2) INFORMATION FOR SEQ ID NO: 2755:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2755:	
	ACCTCAGGGA CAATTAAAAG ITTTTCTTCG GAATGAATGA CAACAACAAA T	51
30	(2) INFORMATION FOR SEQ ID NO: 2756:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2756:	
40	ACGTATICCC TCGTTCTTAG GTCTTCTAAA CATAGGTGAC TTTTTGGTCG	50
	(2) INFORMATION FOR SEQ ID NO: 2757:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2757:	
	AAATGCTTCG TATTAACGCC TATTTTAGCT CCGTTATAGA CACAACTTAC ACA	53
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2758:	
	ACACGGCAGC GAATACTCGT TTGGTGAGCC TGTACACATC TAACACGAGA A	51
	(2) INFORMATION FOR SEQ ID NO: 2759:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2759:	
	GGGAAAACCA ATTAAGGATT TAAAGGTTNA TTTAAAGGGG CCGCCACCGG GTTGGGGATG	60
25	CCCTTTGGGC ACCTTAAGAA AGCCCCGATG GAAAGGGACC GGTTACCTTA ACCGG	115
***	(2) INFORMATION FOR SEQ ID NO: 2760:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2760:	
	TTTGGCCAGG CCAATTAATT CCTGGTGGCC AATTAAATTT AAGGGGACCT TTGGGGGAAT	60
40	AAGGTTTAAA ATTGGAAAAT GGTCCAATTT GGACCTTTTG GCCAATTGGA TTCCCGGCTT	120
	AAAAAGATTT GGACCGGTAA ATCCCTTTTT AAATTACCTC GGGCCANGGC CCAACCAAGC	180
45	CAAACCAATT TAAATCCGCC TGGAAACCAA CCCATAnTTC CTTTACC	227
	(2) INFORMATION FOR SEQ ID NO: 2761:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ACACTATTGT GCCAGCGCAC CTTCGAGGTA TCTTGCATCA CTCAGCTGTT TTTTACTGT	59
_	(2) INFORMATION FOR SEQ ID NO: 2762:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
10	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2762:	
15	TTATCCTGTT CCTAAGCCCG ACGGCTCGGC CACACGATTA ACCTTTAACG CCATCTTGTC	60
	CAACCTGT	68
	(2) INFORMATION FOR SEQ ID NO: 2763:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2763:	
	TGGAAAGTAC CATATAAGTA ATGGTAGTCG TTTCAGAAAG ATATAAATCG TTGGGAAAAG	60
30	AAGAAATGAC AMATTAATGT AAATATTTGT TCATGTACAA ATAAATATAA TTTATA	
	(2) INFORMATION FOR SEQ ID NO: 2764:	116
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2764:	
45	TIGITACAGI GGIGIAGCGG ATCGCACGGC CITCAACTAA GIGGITCAAI GCTTGATACC	60
•••	AGTTATGAGT GTTGGTGC	78
	(2) INFORMATION FOR SEQ ID NO: 2765:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(AI) SEQUENCE DESCRIPTION: SEQ ID NO: 2/65:	
	ATATATTCGT ATGCACCTTT TGTAAGGCTT TGTAATACGA AAATTATCAC TACAATGATT	60
5	GCTGTAACGA GTAACGACAT ATATGGCACA CCGTTTTTAT TNGTTTTACC AA	112
	(2) INFORMATION FOR SEQ ID NO: 2766:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2766:	
	TATTGAAGAT TTTTTCGAAG ATAAAGGTGA CACATATTCA TGTCATGTTT AATATCGTTA	60
20	CCTTACGTAA CCATATAAGA CTGTAACTTG TGTCATATCA TTCGTAGAAC nTTTGGAAAT	120
	GAT	123
25	(2) INFORMATION FOR SEQ ID NO: 2767:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2767:	
35	GTCCGCGCCA CGGAATGGCC CACGGGACGA TÀAGTGAGGG CACCGACGGC CGAACCCAAG	60
	(2) INFORMATION FOR SEQ ID NO: 2768:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2768:	
	GTACGCGGAG CACGAATTCC GCGGATCTGG GAGCATCTCT AGGTAAnTTT	50
50	(2) INFORMATION FOR SEQ ID NO: 2769:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2769:	
5	CTTAGGTAGC TCAGTGTGT ATTGAGAGGC CTGTTGGCAG GCCCCGGACG ATC	53
	(2) INFORMATION FOR SEQ ID NO: 2770:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2770:	
	AAATTGATAG CGTGCACAAA CCAGGTCCAT CCACGAACAT GCCAATCCAG CCCAGGAAGT	60
00	AATTGCCCG	69
20	(2) INFORMATION FOR SEQ ID NO: 2771:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2771:	
	ACGATCATCT GGATGGATAT ACAGAACAGT GTGATTGTAC GTGGTGGGGA AA (2) INFORMATION FOR SEQ ID NO: 2772:	52
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2772:	
45	TTAACAGTAT GATATTATCA CACGTGAATA GGATATGCCA ACACTGGCAT CGTTGGGGAT	60
	AGCGTAATAC	70
	(2) INFORMATION FOR SEQ ID NO: 2773:	
.50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2773:	
_	AACATTGTAT TCGTGATTAA GACTTCGATC GGTTCAGTAT TCGGCAGATC CACATGTGAC	6
5	CATGCTT	6.
	(2) INFORMATION FOR SEQ ID NO: 2774:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2774:	
	CACCCTTGTG ATATCACATT TGTATGTGTT AAGAGGGAGC CCCTTTCCCG ATCAACTGGC	60
20	GATAAAAACA GTTGAnAAGT GGGCGGGGGT TATTATTTCT GATGACGGCG GGGTTTTTTC	120
	(2) INFORMATION FOR SEQ ID NO: 2775:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2775:	
	AACCGTTGCA GGTnAAGCTG GGCnCACCAT TCTTCTCTAT TAATGGTTCA	50
35	(2) INFORMATION FOR SEQ ID NO: 2776:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2776:	
	CATGTACGGT GTCCACACAA GAAGTATTTA GGTGGTTGTT CCCGGATTTA ACCTGGC	57
	(2) INFORMATION FOR SEQ ID NO: 2777:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2777:	
5	AACGACCCCG GGTTCCACCG GGGTCCATTA AGCCAAGGGC CAGGGGACCC C	51
J	(2) INFORMATION FOR SEQ ID NO: 2778:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2778:	
	TTGTTCCGGC CTAAAAAATT TAAATTGAAC CCAAGGGTTG CCTTGGGTTG GGTAATCCAT	60
	TTTTTGAATA AACCTTTGnC CCTAATGAAT TTTTCCGCCA TTTAAAGGGT GTCCGCCAAT	120
20	CCGG	124
	(2) INFORMATION FOR SEQ ID NO: 2779:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2779:	
	GTAAATTTGG GAATTACCGG AAAATTAAGG AAAGGCCAGT AAGGGGTTTC CAGGCCAA	58
35	(2) INFORMATION FOR SEQ ID NO: 2780:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2780:	
	GCACTCCAGC CTGAGCACCA GGGTGAGACC CTGTCTCAAG AACAAAAACA nCAACAnCAA	60
	AAAACTTGTT CAAAACTCAC TTCCTGCAGT AATCTTTCCT TGAACAAACT CACCCTCTAA	120
50	TTCCCACCTG CAATTGTGTG TAGAAATCCA TTCTCGTGTG TAATTTTGGG CTTATATGCA	180
	CACATTGAAA ATCCAAGAGC CAGAAAGAGC TCTAAGGAAT TATCCAGTCC AGCTCTGTGC	240

	AGCCTGGGCT AGGACCCAGA TCTTTCCCAT TTCCCTGTTC CAAAAATTTT nGGCACAGGG	360
	TGGCCACCCT G	371
5	(2) INFORMATION FOR SEQ ID NO: 2781:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2781:	
	GGGGTTGCCA AAGGGGTGTT AAATTTAAGT CCGATGAAAA TTAAGnAAAA AAATCCCATT	60
	TTCCCTTCCG GGTCCGTTGT TGGGGCCTTA ATTTCCCGCC AATCCAAGTT TGGTGAATGA	120
20	AATTAATTAC CGT	133
	(2) INFORMATION FOR SEQ ID NO: 2782:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2782:	
	GTTCAAGTTG ACGCTGGATC ATCTGGTACA CACGTATCCT GCATACTATA GATGTCAT	58
	(2) INFORMATION FOR SEQ ID NO: 2783:	36
35	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2783:	
45	GCTAATTATA GGCCGTCAGG CATTACGnGA TCGAATCTGG CAACTCACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2784:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2784:	
	GCCnChCTCT GTGACACTGT GTATATACAC CCGCGGGAAT ATCTCCAACG	50
5	(2) INFORMATION FOR SEQ ID NO: 2785:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2785:	
	CTTTGTCTGA CATATTGGGG CAGTGATTTT TGGGACGGTT CTACATGTCG AGTACTTTAG	60
	TCAGAGTTGT GAGTAGCGGA CGGGTnTACT TGATATACCC TTAATGTGTA T	111
20	(2) INFORMATION FOR SEQ ID NO: 2786:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2786: CATGATGATA CTTGCATGTA CGTTGTACGT GAACGTACAG TTACGTTGTC	. 50
	(2) INFORMATION FOR SEQ ID NO: 2787:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2787:	
	TCAGCAAGTA GTAAGGATAT CAAACTATGA TCTATTTGAT GTTATGCCAT AA	52
45	(2) INFORMATION FOR SEQ ID NO: 2788:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCATCATGGA ATATTAAAAC AGCTGATATG TTTGAGTAAT GATTGATTGA CGAGATATGC	60
	GGCA	64
5	(2) INFORMATION FOR SEQ ID NO: 2789:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2789:	
	TGAGAGAAGT CACAGTCGCC AGCGGCAAAG AACCCGnnAA GATGTGnGCA	50
	(2) INFORMATION FOR SEQ ID NO: 2790:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2790:	
	CAGTGTATGG AATCTTGTTT GAGTGTGAGA GTCAAAGACT TGGTGATTGA ATGGAAAAAT	60
30	TGAA	64
	(2) INFORMATION FOR SEQ ID NO: 2791:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2791:	
	ACAAnGGGTG AAGTTCTCCC ACATGCTGTA TACCGTGGGA TTATTTTTAA	50
45	(2) INFORMATION FOR SEQ ID NO: 2792:	
<i>60</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATTCCTATTC AACAACGGAT ACATAATCTT TTATATCTTC CTTCTAGTCA TATGATACTG	60
	GAATAAGTGA TATTTCTTAT AAT	83
5	(2) INFORMATION FOR SEQ ID NO: 2793:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2793:	
	CATATGTCAT CGTACGTAAT CATCGATGAA ATATCAACAT CTCGACTTAA TAGGTCAACA	60
	AGAT	64
20	(2) INFORMATION FOR SEQ ID NO: 2794:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPB: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2794: CCCTACTCCG CGCAATAACC GCATTACCAG ATGCGCTTCC ACTGAGGAAC GACGGAT	57
	(2) INFORMATION FOR SEQ ID NO: 2795:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2795:	
	AGATAAAGTG TCATCTATAT CCATCTATCA ATATAGATAT GTTTACGGCC GATTTCAATC	60
45	CGCAA	65
	(2) INFORMATION FOR SEQ ID NO: 2796:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2796:	
	TATACGCCTC ATTACACCCA ATTGGACCCT TTACGTATGG AGTACATTAT AGAATCGA	58
5	(2) INFORMATION FOR SEQ ID NO: 2797:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2797:	
	ngctaagaat ttataagagg tttcggcaga tatatatacg caagtatctg	50
	(2) INFORMATION FOR SEQ ID NO: 2798:	
_. 20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2798:	
30	AAGCAGTCTT TCACAAAAAG TGAATAATCA CTAGTTCATT AATTTGCATT TGAACCTTCA	60
	TATAATGCAT ATTACTTAAT GTACAAGCAA AGATGTATTT ACCTATCAAA GAATTTnC	118
	(2) INFORMATION FOR SEQ ID NO: 2799:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2799:	
	CCATAGAACC TGTGAATACC TATACATATC ATACTGTGGA ATTCGTTACG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2800:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CCAATTCAGA CTGTTATTCT CTCTTCGTGA TAACCCGTGA TGTTTGTCTG C	51
	(2) INFORMATION FOR SEQ ID NO: 2801:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2801:	
15	GGGGGnGCAT ACCGCACCGA AGCATCAGAC GATGTGAGCG ACCTACCTCC (2) INFORMATION FOR SEQ ID NO: 2802:	50
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2802:	5.
	CCGTAGCGCA CATATGACGA GACCAAGGAT AACGTGCAAn GnCATATTGT	50
	(2) INFORMATION FOR SEQ ID NO: 2803:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
3 5	(b) Torobodi: Tineal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2803:	
40	CACGTCATGA ACGTGCATTC AACACAATCA TTTACGAGAT GGACCAAGAC (2) INFORMATION FOR SEQ ID NO: 2804:	50
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2804:	
	TATGGTGTTT ATTTTAGCGC THGTTGTGCT TTGTCTTCAG CATCTATAAC CTAGTGCGAT	60

	CTATTG	126
	(2) INFORMATION FOR SEQ ID NO: 2805:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2805:	
	AAAAGCGCAT ATGGTGTTTT TCTCATATCA CTCCAGGACT CAGCAGCTGG AAGGAGTTAA	60
15	GAAGTAATAA GGTGCCACCC TAAATCCA	88
	(2) INFORMATION FOR SEQ ID NO: 2806:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2806:	
	TGGATCCGGT ACCAAATAGG GACTACCGGG AATGTCCCGG GGGGCCTAAT GCCGAATGGG	60
30	GCAACG	66
	(2) INFORMATION FOR SEQ ID NO: 2807:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2807:	
	CCCGCTAACG TGGGGAAAGT TTTGAAGTTA AGAAGGAATG GATTCCTAAC GGGGCGGGGT CCAAAC	60
45		66
	(2) INFORMATION FOR SEQ ID NO: 2808:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2808:	
	ACAAAGCAGT ACTGAACTGG TTTCGTTGGA GCCCGTGTTG CTGTTTATTC ACGGCA	56
5	(2) INFORMATION FOR SEQ ID NO: 2809:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809:	
	AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA	60
	TCC	63
20	(2) INFORMATION FOR SEQ ID NO: 2810:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
22	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810:	
30	TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG	58
	(2) INFORMATION FOR SEQ ID NO: 2811:	÷
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811:	
	AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT	58
45	(2) INFORMATION FOR SEQ ID NO: 2812:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
-	(D) TOPOLOGY: linear	

	CATCATTAAG GCAAAAACTT TCACAAAGTC ATGAGGCGCA AAAGGTATTA TTATAACACA	60
	TCCCGCGTTG GG	72
5	(2) INFORMATION FOR SEQ ID NO: 2813:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2813:	
	CCATTTAAAG CGGTACGGGG CTTGGTTCAG GAACGTCGTT AGACAAATTC GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2814:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2814:	
	TAGTACCCAA TTTCCAGTCG AACCAGGATG GGACCAGAAG CCAAACCAAC GTT	53
30	(2) INFORMATION FOR SEQ ID NO: 2815:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2815:	
	GAAAAAAAGG CCTTGTTTAC CAAAGGGGCC AATTTTTTCG GTTCAAGGTC CAAACCTACC	60
	TT	62
45	(2) INFORMATION FOR SEQ ID NO: 2816:	
٠.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
<i>50</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCTGAATGAC GCCGAAATCC CATCTGAATT CATGGGATTT TCCACTTTCA	50
	(2) INFORMATION FOR SEQ ID NO: 2817:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2817:	
15	CGTTACTAAA GCTACATAGT GCGTCATTTA AGATTATAGC AAGTAGCATA T	51
	(2) INFORMATION FOR SEQ ID NO: 2818:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2818:	
	CATTCACCAT AATATTCATT GTTCCATTAG CATATCAGGC ATGTCACGTG CACA	54
	(2) INFORMATION FOR SEQ ID NO: 2819:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2819:	
40	GTGTATCAAA TGAGCATGTT nCAATGGTTC AnCATGGCGT TTATGGCACT	50
**	(2) INFORMATION FOR SEQ ID NO: 2820:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2820:	
	ACAATTGCGG CTGCTCATTG TGAGCACGAC TTTATCATGG TTGGGTTCAG	50
55		
33		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2821:	
	CAGTAGTACG TAAAAATGAA TCACTTGAAG ATGCGTACGT AGATTTTAAA CGTCAGTTCT	60
	AAAAAGTGGA CAATCCAAGA GACGTAACGG AATTTnCGAA AA	102
15	(2) INFORMATION FOR SEQ ID NO: 2822:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2822:	
25	GAGTACTTAA TCCGGCACCG TTTACTTCTG GGGGCATCGA CTAAGTGGGG CGGCC	55
	(2) INFORMATION FOR SEQ ID NO: 2823:	33
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2823:	
	ATTGGTTTCT CATAAACACT TITCTATGAA TITGTATGTA TITGTTTATT AAAATCTCTA	60
	ATTCTTATGG A	60 71
40	(2) INFORMATION FOR SEQ ID NO: 2824:	/1
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2824:	
	CCATTGAGTG TGAGTATATC ATCGATCAAT ATGCAACATT TATCAGGTGC ATGTTGCTTA	60

	TGGATAATTG AACA	134
5	(2) INFORMATION FOR SEQ ID NO: 2825:	٠
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2825:	
15	CCAGAATGAT GAGCTACAGG ATCAGCCCAG ATATGCAGGT AAACGGGCCA ACCATTG	57
	(2) INFORMATION FOR SEQ ID NO: 2826:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(w/) CROUNCE PROCESSION CROUNCES	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2826:	
	CAATAATGCT GAACAGCAAC GCATCTCATT CTAAAATCGC TCAGAATCAC ATCCCATGCA	60
30	CACATAATAA GTGGCACTTA GCTTAAAAT	89
	(2) INFORMATION FOR SEQ ID NO: 2827:	٠.
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2827:	
40	CGGATTAGTG GTGTAAACTG GGTGACCCAT ACCACACCTC GCGTGTTGTG AAAAAAAGGAC	60
	TTAA	64
45	(2) INFORMATION FOR SEQ ID NO: 2828:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TATACAGAAA ACAGCGTGCC GTTATCCATT ATCACATGAC ATATGTAGTC C	51
	(2) INFORMATION FOR SEQ ID NO: 2829:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2829:	
15	GAGATACGGT CTTCGTATAT GATATGTGCA TATTTAGATA GTCATTTATG AGAGAACGTG	60
	GACGTGAG	68
	(2) INFORMATION FOR SEQ ID NO: 2830:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2830:	
	TGATGATTGT TTATGATACG ATATGTAAAT GATAATCATC CAGGAGGTCT AGCATGGT	58
30	(2) INFORMATION FOR SEQ ID NO: 2831:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2831:	
40	CCTAACAAC ATAATTAAAC CCATAAATGC ATCCAATGCG GTTAAACCAT GAAA	54
	(2) INFORMATION FOR SEQ ID NO: 2832:	24
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2832:	

	(2) INFORMATION FOR SEQ ID NO: 2833:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2833:	
	GTCTGCTACC CTTTCAGAGC AACATGCTGA GTGTATAATG CCGTGTATAG GGGACAATGC	60
	CATTCACTA	69
15		0.3
	(2) INFORMATION FOR SEQ ID NO: 2834:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2834:	
	AACACCAGCT GGTAAGTATC ACGTTACATT TTGTGTCTTC ATGATTAATA AAAAC	55
	(2) INFORMATION FOR SEQ ID NO: 2835:	-
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2835:	
40	AGAGCTTGGA TGTCGTTCGT AATTGATGCT CTAGCTCCAT GGGGCCCATG (2) INFORMATION FOR SEQ ID NO: 2836:	. 50
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2836:	
	TTTCGTCACT ATTGCTCATG CATAGACATT TGCAATACCG GCAAATGACG ATGGNATATG	60

	TTAATGGTCA ATACAGGG	138
	(2) INFORMATION FOR SEQ ID NO: 2837:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2837:	
15	GTTGGCAACT TCAGTCGCTA CTTTAACGCA TCTCACAGTC CTCCTCCCAA AGAGAACGTA	60
	T	61
	(2) INFORMATION FOR SEQ ID NO: 2838:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2838:	
	ACGTGAATCC CGTGAGGCCA ACAGTGATTT GGATAATTAC ATGGATGTTT GACTAATGGT	60
30	CATTCACACC CAGATCAG	78
	(2) INFORMATION FOR SEQ ID NO: 2839:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2839:	
	ACTTAAAATC TCCTCTTGCC TAACTTCCAC ATTCTTATCG ATATGAATAC ACCATACGTT	60
45	TTATAGATAA GTTGATGTTG ATGCATATGT	90
	(2) INFORMATION FOR SEQ ID NO: 2840:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2840:	
	TATATTTAGT CTGTTATACA AGGTGTATCA CAGCGGTAAT ATGCCTCTAC ATGGCCATAT	60
5	G	61
	(2) INFORMATION FOR SEQ ID NO: 2841:	
10	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2841:	
	GGGCCCCGGC GGCAGGGAGG AAGGGGGCCAA GGGCGGCGCC AAGACCACGA CCGGCACC	58
20	(2) INFORMATION FOR SEQ ID NO: 2842:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2842:	
30	TGTACAGGTG CAGTTAGACC GCCTGACGGA ACGAGACGTG CAATTGCCAG CAACGCACAA	60
	(2) INFORMATION FOR SEQ ID NO: 2843:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2843:	
	AAACATGTGA AGTGATCGAG GTATGGACGG AGTAATGATC GCACAAGACA TAGCATCCCC	60
45	GT	62
	(2) INFORMATION FOR SEQ ID NO: 2844:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2844:	
5	ACGATTTAGT TTGAATTTCT ATTAGGGTTT GGTGATTCTA CTACTTCTGA TA	52
	(2) INFORMATION FOR SEQ ID NO: 2845:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2845:	
	GATTATCACA ATTATGCAAA GTTGTCTAAT CGTTAGACCA ATTTCTGTTC AAACACCACA	60
	ATC	63
20	(2) INFORMATION FOR SEQ ID NO: 2846:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2846:	
30	CGTTATATAA GAnCGACATG GAAGCATGAT GAAATATTGA ATACATCATA	50
	(2) INFORMATION FOR SEQ ID NO: 2847:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2847:	
	CCACAGGTGC ATCCGCCTGG TATGGAGCCG GCCAGTCTTC ACTGCTTTCA C	51
45	(2) INFORMATION FOR SEQ ID NO: 2848:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	AAAACTGTCC CAAGCTGTTT TTATTTAGAG CAACCAATCC AATTTAAACC CCCCACCATT	60
•	ATTITAAATA ATACCATTCC AGCGAAAGCC CTTTCCANGG TTTTGGAATA TAA	113
5	(2) INFORMATION FOR SEQ ID NO: 2849:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobost: Timear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2849:	
	CATCTGGAAC TTTTTAATTC CAGAAGGGTT CCAGAAGGTT TCGAAATCCC TCCTAATGGG	60
	CTCCATTAAC GGATTTTAAA TTTTTTAATA ATTTTAGGCC AAAAAATTAA TTTCCAGGAA	120
20	AAGTAAGTTT CCAACCCGGG TAAGAAATTA CChAA	155
	(2) INFORMATION FOR SEQ ID NO: 2850:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2850:	
	CACAAACTAA CATAGAAGGG CCATCATCAG GTGCTATTAA ATATCTACGC TAGATTGTAA	60
35	ATCA (2) INFORMATION FOR SEQ ID NO: 2851:	64
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2851:	
	AATTATICAT CAATAGCTCT TTACGATTCA CAAATCTAGG TACTTTTCAG ATCT	54
	(2) INFORMATION FOR SEQ ID NO: 2852:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2852:	
	AAGCCCCTTT AAACTGGGCC TTTAAGGAAC GGTGGCGAAA ATCCCCAAAT TCCGGGCA	58
5	(2) INFORMATION FOR SEQ ID NO: 2853:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2853:	•
	AAAGGTTTCC ATTCGGTCCC ATTAAGATTT TTTTGGAAAT TCCATGGAAG GATGGTTGGT	60
	CCTTTAGGCC TGGTAGGTTA TCCTTTTTGn AGGTGGTATC CAG	103
20	(2) INFORMATION FOR SEQ ID NO: 2854:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2854:	
30	GGCCACGGTC ATTCCTCCAA GCCAACCAGT GGACAAGATG GGTGGAAGGC GCAGG	55
	(2) INFORMATION FOR SEQ ID NO: 2855:	-
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2855:	
	TATTTGGCAT TCAAATAACG TAAACGGATT TTGAAGTAAT TTACATAAAG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2856:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

. 55

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2856:	
	ACAATTIGAC AATGACTGGG ATGCTGACAC TTGATATGAA GACAATTGAA GAT	53
5	(2) INFORMATION FOR SEQ ID NO: 2857:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2857:	
	AACTGCGTTA CATGCTTTGC TTTTAACTGA ACCCAGAACA ACGGTTTCGG	50
	(2) INFORMATION FOR SEQ ID NO: 2858:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2858:	
30	CTTTnnTAnc TTCATCTCTA TTATTATTGT CCGAATTACT ACGTGGACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2859:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2859:	
	TCCAGGTCGA ATTTATTGCC AATTAGCCTC CCGGGTTAAA AGGGTGGGTG TCGGGTAAAA	60
45	TCGTAC	66
	(2) INFORMATION FOR SEQ ID NO: 2860:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTATCCAGT CCCCCGGAGG GGTGACAAAC TTCCACGCCC AGTGGGGGGA CTACCGTTTT	60
	GGACCAAAGC CC	72
5	(2) INFORMATION FOR SEQ ID NO: 2861:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2861:	
	AGTGTCGAAC AATTAAAGAT ATTGAGTGAC AGGATTGCTT AAGGGCCGGT CGGAACAG	58
	(2) INFORMATION FOR SEQ ID NO: 2862:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2862:	
	TTAGCGGTAA ATCCGAAGAA CTAAGAAGAC GTCAAGAAGG GGATATACGC	50
30	(2) INFORMATION FOR SEQ ID NO: 2863:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2863:	
	GCAAAANTGA GAGCTCAANC TGCANNAAGC AAATCAACGA AAGATTAGGT	50
	(2) INFORMATION FOR SEQ ID NO: 2864:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2864:	
EE		

	AACTATTCTG GATTTGTGCA GTGGCTATGG GGATGAGTGC GTTCCCCTCT TTCATGACGC	120
5	AGGCGAACGC CAGCAACGCA ACCACTGATC AATGCTGAGC CAGCTGTAGC CGCCCAGACG	180
J	GAACAAAATC CGCAGTGGGG GCAAGTGATG CCGGGCGTGC ANGGCGCTGA TGNCAGTTCG	240
	TGGCAG	246
10	(2) INFORMATION FOR SEQ ID NO: 2865:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2865:	
20	ACAGATGATA CCTCTTGATC ACTTGCCAGA GATCGTCTAA GTCGTCCTTG	50
	(2) INFORMATION FOR SEQ ID NO: 2866:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
-30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2866:	
	AATACCACGC TGACCTTAAT AAGCCATCAT GGGGGAAATC ATGACCGCAA T	51
35	(2) INFORMATION FOR SEQ ID NO: 2867:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2867:	
	CAACTTGGTA AGTGGTCGTT TTGGGCCCCA CCCTACCCGT TTGGACCTGG	50
	(2) INFORMATION FOR SEQ ID NO: 2868:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2868:	
	CCCAACCCGG TTCCGGGCCT TAATTTTTTn CCTTTTAAAG GAAAAAAAGG AAAAACCGGT	60
5	TAATTCCGGC CCAAAAANCC CGGAAGTTGG AAACCTTTTT TTAATAAAA TAATGGACCG	120
	TCCCAACCTT TGTTGCCAAA AGGTGGCCTA AAGGTTTAAA AAAAACCGTT AAAATCCATG	180
10	GCCAGGATCC AGCCTAAAAT TGAAACCATT ATAATTGATA AAC	223
	(2) INFORMATION FOR SEQ ID NO: 2869:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2869:	
	TGGACCTTTG GTAATATGAA TTGAATGGTG CTTTGTGGAA ATCGGGAATT CGCCTCGTGC	60
	CITGTA	66
25	(2) INFORMATION FOR SEQ ID NO: 2870:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2870:	
	AANAGCCANG ATCATGGTAT ATCCATTAAG AGACGAGAAG ATCGATGCCC	50
	(2) INFORMATION FOR SEQ ID NO: 2871:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2871:	
50	TTATTTGGAC TTACAAGGAG AATAGTCAnT TCTAGGAAAG TGGTGCGAAA GTCACTTACC	60
50	AATATACGGG GATTATTCAT CCATCGTCGG TCGGTCATAT GATACGGAAT TAACACGCCA	120
	CTCCG	125

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2872: CAACACCTGA CGTGTATAGA ACTCATCTCT TCAATAACGT CGCTGTCAGG TTACGAAGTC	60
	GA ·	62
15	(2) INFORMATION FOR SEQ ID NO: 2873:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2873:	
25	TATACATTCC ATTTAACACC TTAACACATG CAAGTTACTT CCTCCTCAAG CATC	54
	(2) INFORMATION FOR SEQ ID NO: 2874:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2874:	
	GCTGAAAGGA GACTTCTGCA GGTGTGATCA CAAACTGCAC ATCTACACAA GCCATT	56
40	(2) INFORMATION FOR SEQ ID NO: 2875:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2875:	
50	AGCGCGACCG CGAGAAGGGA GGGGGAGCCA GAGCAGCAGC AGGCCCCAGG GCGAAACCCC	60
	CAAGAGGAGC GAGNAAGAAG GAGGGAAAGC CCAGCAGGGG CGCCCAGGCC AG	112
	, and the second	
<i>55</i>		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2876:	
10	GNGCGTTNNA NCGGTCGCGT AGAGATGTCG GGTCTGTAGT AGATCTGGGG	50
	GRIGGOTTHIMA HEGGTEGEGI AGAGATGTEG GGTETGTAGT AGATETGGGG	50
	(2) INFORMATION FOR SEQ ID NO: 2877:	
15	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2877:	
	ACCTTGACTT TGCAGACGAT GATGCTTTTG GCTGGGATCT TCACCATCTG GCAACTGAAT	60
25	ATGGTTGG	68
	(2) INFORMATION FOR SEQ ID NO: 2878:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2878:	
	CTCCACCTGA TGCATGCCCC CATATCAGGA AAATGATAAC CTCGGACACC TTC	53
40	(2) INFORMATION FOR SEQ ID NO: 2879:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<i>50</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2879:	
	GGGAACTTTG ATCTGCCCTT GAAATCCTGA AAAATGTTTG CAAACGGGAA TGATCTTGTG	60
	CCTTGCTTTG AATGA	75

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2880:	
	AGAGAGGCCG AGATGGCAGA TGAGATTGCC AAGGCTCAGG TCGCTCGGCC TGGTGGCGAC	60
	ACGATCTTCG GGAAGATCAT CCGCAAGAAA TACCAGCCAA AATCATTTTT GAGGATGACC	120
15	GGTGCCTTGC TTTCCATGAC ATTTCCCCTC AAGCACCAAC ACATTTTCTG GTGATACCCA	180
	AGAAACATAT ATCCCAGATT TCTGTGGCAG AAGATGATGA TGAAAGTCTT CTTGGACACT	240
	TAATGATTGT TGGCAAGAAA TGTGCTGCGG ATCTGGGCCT GAATAAGGTT ATCGANGGTG	300
20	GTGAnTGAAG TTCAGnGGTG GACATCCGTC TATCACGTTC A	341
	(2) INFORMATION FOR SEQ ID NO: 2881:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2881:	
	GCGGTTACTG TGTAATGGCA TTAAATATGA AACGAGCCGA TGGAGCGTTG	50
35	(2) INFORMATION FOR SEQ ID NO: 2882:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2882:	
45	CTCATCATTT GTAGTTGGAA AGGTTTATGT ACATTTGGAA AACACCGACA CATGACGTAT	60
	CTCCATTGCA ATTTACACAA G	81
50	(2) INFORMATION FOR SEQ ID NO: 2883:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2883:	
5	TETETETET TETETETET TETETETET TETETETET	60
	TTTTTTTTT TTTTTTT	77
	(2) INFORMATION FOR SEQ ID NO: 2884:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2884;	ř
20	ACGGTGTGCT TGATGCACTT GGAACTGTGA GTTTGGGTGT GACTTTGCTT TGGCTTGCTT	60
	GCTGAATGTT TTGACTATGC ATTGCGTATA TGACTTGNAG CGCG	104
	(2) INFORMATION FOR SEQ ID NO: 2885:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2885:	
35	AGCAACGTGT CTGTCAACGT GGTGTCATTG GAAAAGGCGT CATGTATTGn CCGGTGGGAT	60
	TTACGTGTAG TCACACATGT GCCCAATTAT TGTTTTGAGG CCAACTTGAG TAGGTTGATG	120
	GTTATGT	127
40	(2) INFORMATION FOR SEQ ID NO: 2886:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2886: TGAGCGAGTG CTGTGTGAGC GCGAGGTTGT GAGAGTTAGA ACCTTGTGAG C	57.
	(2) INFORMATION FOR SEQ ID NO: 2887:	51 [,]
	*	

5	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2887:	
10	TTGAAACCGC GAACCTGAGT TCTGGTTAAC TACAGTCTGG TATACACATT GAGGGAAACT	60
	TCG	63
	(2) INFORMATION FOR SEQ ID NO: 2888:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(\$\frac{1}{2}\) Totoboot. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2888:	
25	AGTANCATAC NCAACTATCT CAGCATACAA TATTGGNCAC CTCGCAGCTT	50
	(2) INFORMATION FOR SEQ ID NO: 2889:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2889:	
	AAANATAATC CCGGTTTTAT CCCCCTACCT AATTAGTGGG AAAAGTACCA ATTGCCAATT	60
40	GGTAAAATAG GTTGCCATAA CGGCCTCCCA AAAGTAAATT CCCTTTTTTG GTTTA	115
	(2) INFORMATION FOR SEQ ID NO: 2890:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2890:	
	AATCGGTCCG TTATACTCTT CATAATATTG TGGCGCAACC ATTTCAACTT TATCTTTTCT	60
<i>55</i>	TATAAATAGC ATCATCGCAA TANTAAAGAA TAATATCGGA ATGATTAAAG TAACGATAAG	120

(2) INFORMATION FOR SEQ ID NO: 2891:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2891:	
	AACACAACAA GTTGTTAAAG ATGCATTTTT ATCACAACAT AAATCTATTG GACGTAAAGC	60
15	TCAAGAAGCA TACTTATCAT ATCGTTTAGA ACAAGAGTAT AGTAAAGATG ATATCTTCCA	120
	AGTATATCTA AACAAAATTT ACTATTCTGA TGGCGTAACA GGTATTAAAG CTGCTGCTAA	180
	GTATTACTTT AATAAAGATT TAAAAGATTT AAACTTAGCG GAAGAAGCTT ATTTAGCCGG	240
20	TTTACCTCAG GTTCCAAACA ACTATAATAT TTATGATCAT CCAAAAGCTG CTGAAGATCG	300
	TAAAAnCACT GTTTTATACT TAATGCATTA TCATAAACGC ATTACAGATA AACAGTGGGA	360
	AGATGCTAAG AAAATCGATT TAAAAGCGAA CTTAGTAAAT	400
25	(2) INFORMATION FOR SEQ ID NO: 2892:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2892:	
	CCTAATTAAA CCTCCATCCA TCCTTTTGAA GGGGGATCTT TAATAAANCC GGAAAGTTTG	60
	GGGGAAAAAT CCTCCATCCT TTGAAGGGGG GGGCTTTCCA ATGGCCTTTA AGAATGGCCT	120
40	TTTCCAAGCC AACTTTAAT TCCCCCGGT	149
	(2) INFORMATION FOR SEQ ID NO: 2893:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2893:	
	GCCCGAAGTA TTCTTGTAAG TATTATGATA CTCGGTnCTT TTTATGATTT ATGTTAATTT	60

	TTATGTTAGT	130
	(2) INFORMATION FOR SEQ ID NO: 2894:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) Torobodi: Tilledi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2894:	
15	GATGAGACCT GAATTGATTG CAACCCAAAT CGGCATATGC AAATTGCATT AAAGTTGGTT	60
	CAACG	65
	(2) INFORMATION FOR SEQ ID NO: 2895:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2895:	
	CGCACAACAC ATTTAGCGAC TCAGATGTCG CGCGAATGGA CCGATATGGC GTGTCTACAC	- 60
30	ATTGTCATAT TGTACGAATA GATGAGAAAT THCAAAGACC GA	102
	(2) INFORMATION FOR SEQ ID NO: 2896:	102
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2896:	
	ATTAAGTGAT GGGCTAATGT TTACGCCCCA ACCAAAGGTT TCCAAAGAGC CCTTGTTGGG	60
45	CCTGTGTTG	69
	(2) INFORMATION FOR SEQ ID NO: 2897:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2897:	
	ATTGAATTAA TGTCCCAACC AAACGAATGG TTGCCCTTTT TCCATCCAAA GGGGGCTAAT	60
5	TGGGAAGGGT ATTGGTTCCC	80
	(2) INFORMATION FOR SEQ ID NO: 2898:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2898:	
	CAAATCCTGG AGATGAGCGT AACCAAAAAT AACGTTGAGA AAATGACCAC ACA	53
20	(2) INFORMATION FOR SEQ ID NO: 2899:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2899:	
	ATCGTGAACC TCTCATCCAA TCACTCATGT GAGTGAATTG GATGACCTGA A	51
35	(2) INFORMATION FOR SEQ ID NO: 2900: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2900:	
	AGCTTTCAGG GCTATATCAG ACCCACGCAT TCATCCACGT GAATGAAACA CG	52
45	(2) INFORMATION FOR SEQ ID NO: 2901:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTACTGACA GAGGGACAAG GTGGAAAGGn TGCCAATGTA AGAATACGGT	50
	(2) INFORMATION FOR SEQ ID NO: 2902:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2902:	
15	TGTCTGGAAT TCAGGTGAAT TGATGCGGAG ATTTAGGTGA TTAAGGAGTG TTGATTATGA	60
	AGATGACCAC TT	72
	(2) INFORMATION FOR SEQ ID NO: 2903:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Toronogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2903:	
	CATGCCAAAG CAGTAGGCAA GCCGCTTAGC AAGCCAAAAA CGTCAGCCCA	50
30	(2) INFORMATION FOR SEQ ID NO: 2904:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2904:	
	TTGATGTTAC CTGATCGCAA TCTTGACCAC CTGGCAGGGT CTCATTGTTG GGTATCGA	58
	(2) INFORMATION FOR SEQ ID NO: 2905:	36
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2905:	
<i>55</i>		

•	GCGGTCTAT	69
	(2) INFORMATION FOR SEQ ID NO: 2906:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Torobodi. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2906:	
15	ATTCCATTAG GTTCAATTAA AAATTAACGG GGTTATGGTT CCGGTAATTC GGG	53
	(2) INFORMATION FOR SEQ ID NO: 2907:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2907:	
	AAAGCTAAGA AAGGAGGATT AGCTGGTAGT GGAGGAATGT TAAGTGAGGC TGGTGAT	57
30	(2) INFORMATION FOR SEQ ID NO: 2908:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2908:	
40	GGGAATGGCG CATGAACGTG CACATCAAAT GACACTGCAG GAAATCAATT AGCACGGATA	60
	TGGCATAAAG ACAATGGTAA AAGTGG	86
45	(2) INFORMATION FOR SEQ ID NO: 2909:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
**	(D) 1010D001. Lindal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2909:	
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 2910:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2910:	
	GAATTIGTTC CGAGGTATCG AGGACTACGC TTATAAGGTG CTTACAGATA CATTTANCAT	60
15	TAATGGCGTG TGCTGCTGTA TGGGTTATAC TGTTCACAGG TTTAAGAGA	109
	(2) INFORMATION FOR SEQ ID NO: 2911:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2911:	
	TTGTCCCCAT AGGGAGAAAT AATTCCGCCT GGGCAAAACC AAATCCACGA GCTTCTAAGG	60
30	(2) INFORMATION FOR SEQ ID NO: 2912:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2912:	
40	TAGATGTATC CAGCTGACAT TAGCTATTGG TAAGGTAACG GCTTACCAGG CAACG	55
	(2) INFORMATION FOR SEQ ID NO: 2913:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2913:	
	GCCATGAGGC CCACCCATCC ATGTTTATGG ATGGTGGATT GGGGAATTAC TTGTTTCAAA	60
55	1111111	- -

	TCA	123
	(2) INFORMATION FOR SEQ ID NO: 2914:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2914:	
15	ATCCGTAATT CTGGCCTACC AAGGGTTTAG GCCAATGGGC CATTCTTTTA TTTAACCC	58
	(2) INFORMATION FOR SEQ ID NO: 2915:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2915:	
	TGGTGCGACA GTGGTAGGCT TTTTACGGTn TGCnGGCGAG AGTTCTGTAG	50
30	(2) INFORMATION FOR SEQ ID NO: 2916: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2916:	
40	CTGTTACGCT ATGCCCCCCA GTTGTATGTT GAGTGGAATC GTGTTTTTCG ACCTGCCTTT	60
	GCTTTTT	68
45	(2) INFORMATION FOR SEQ ID NO: 2917:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2917:	
55		

	GGAAA	65
	(2) INFORMATION FOR SEQ ID NO: 2918:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2918:	
15	AAATTCCAAT CCTGGGAATG GGATTCCATG GTnTTCGGAA AAATCCGCCA CCCCAAAAAA	60
	ATAAATGGGT CCCTTCCCTT GGAAATATTA CCTTTACCAG G	101
	(2) INFORMATION FOR SEQ ID NO: 2919:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2919:	
30	TAATAAATCC ATGACCACCG TCACGACGAT CTGACTGATA AACTAATGAC ATATGACTGG	60
	TGTACACACC GTATG	. 75
	(2) INFORMATION FOR SEQ ID NO: 2920:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	
٠	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2920:	
45	CTTGGATTGA CCATCATTAG TITTGGTCAC TCTAAGTTGT ACTGTCCGTT GTACAA	56
	(2) INFORMATION FOR SEQ ID NO: 2921:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GCTCATTGCT TGTATATTAA TCCCTGAAAT TGACCGTGTA TATCCCGTCG ATCTATCTTG	60
	TCCTG	65
5	(2) INFORMATION FOR SEQ ID NO: 2922:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2922:	
	GCAATATTCT AATCTGTATG TTACAGCACA TGGATATAGC ACATCCGGGC	50
	(2) INFORMATION FOR SEQ ID NO: 2923:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(a) Islandi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2923:	
	TGTGATTTAA CAGGATTACA CAGGTGTACC AGCCGATAGT TGATTAAGCT TCTT	· -
30	(2) INFORMATION FOR SEQ ID NO: 2924:	54
	(i) SEQUENCE CHARACTERISTICS:	
<i>3</i> 5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2924:	
	ATCCTGGGAA GTGCTGAAAA ACCACTnCAC TAAAGGCATA GGAnCCACAC	50
45	(2) INFORMATION FOR SEQ ID NO: 2925:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2925:	
55		

	10. THE OWNER TON CON CONTROL 2926:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2926:	
	TTGGTCACAT TTATTCTCGT GTTGTGCCGT TCTTCTTCAG TACTAAAGAC AAGGTGATTC	6
15	GG	6
	(2) INFORMATION FOR SEQ ID NO: 2927:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2927:	
	CAAAAGGCTA TCCCACCTGA TTTGCAAAAG GAACTGGACT GCAAGGGAAG TCTCAG	56
30	(2) INFORMATION FOR SEQ ID NO: 2928:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2928:	
40	TGATCTTGCT ATTTAGTTGC GGCTTGGATT CATTTGGCAT GGTTAAGATT AAATTAGATG	60
	CTTCATTCAT TCAAGATTTC TTCATGTTAG CATTCTTTAC GACAATCGGT CTTGGTGCAT	120
	CATTGAAATT ATTTAAATTA GGTGGCAAAG TCTTGCTATT ATACTTTATG TTTTGTGCTA	180
45	TCATTTCAGT CATTCAAAAC ATAGTTGGTG TATCACTAGC AAAAGTATTA AATATTAAAC	240
	CTTTGTTAGG ATTAACAGCA GGTTCCATGT CTATGGAAGG CGGTCATGGT AATGCTGCTG	300
60	CTTATGGTAA GACAATTCAA GATTTAGGTA TIGATTCGGC ACTGACAGCG GCTCTTGCAG	360
	CTGCAACTTT AGGTCTTGTA TTTGGAGGGC TATCGGTGGT	400
	(2) INFORMATION FOR SEQ ID NO: 2929:	- 30

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2929:	
10	CTGAACCGAT GGCGCACTTT GCTACGCCAC CTACAGCAGA TCCCAnGGGG GGnGAAGCTT	60
	ATACTGAAGC TCTACGTTCA ACATTTTCC ATTGGGGATT CCATGCTTGG GCTGTTTATG	120
	GTGTTGTTGC GTTACGTTTG GCATATTCGC AATTCCGTAA AGGTGAACCA GGTTTATTAT	180
15	CTAGAACTTT ACGTCCTCTT TTAGGTGATA AAGTAGAAGG TCCTATTGGG ATTTTTATTG	240
	ACGITITATC TGTATTTGCG ACAATCGTTG GGGTAGCCGT TTCGTTAGGT ATGGGTGCTC	300
20	TACAAATTAA TGGTGGTTTA CATTACTTGT TCAATGTTCC AAACAATACG TTTGTACAAG	360
	CGATTATCAT CATTGTTGTT ACTATCTTAT TTATAGCAAG	400
	(2) INFORMATION FOR SEQ ID NO: 2930:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2930:	
35	ATGTAGATCT ATATGATGAC TTTTTACAAG ATCCATCATC TGTACCAGAA GATTTAAAGT	60
33	CTTATTCAGC ACAATTAAGA ATGATGACTC AATTGTACCA GCTTTAAAAA GTACAAGTAG	120
	TCANAATAGC GACGGCACAA TTAAGCGTGT CATGCGTTTA ATTGATAATA TTCGCCAATA	180
40	CGGGCATCTT AAAGCCGATA TTTATCCTGT AAATCCTCCA AAAAGGAAAC ATGTACCTAA	240
	ATTAGAGATT GAAGACTTTG ATTTAGATCA ACAGACTTTG GAAGGTATAT CAGCAGGAAT	300
	TGTTTCAGAT CACTTTGCCG ACATTTATGA TAATGCCTAT GANGCAATTT TAAGAATGGA	360
15	AAAACGTTAC AAAGGNCCAT TGCATTTGAG TATACCNTAT	400
	(2) INFORMATION FOR SEQ ID NO: 2931:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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	GGTTATACAA TCTAGAATCG CATGATAATT TAATGCTACA AATCGATAGT ACAATATATC	60
	TACCGTGAAT AACTGTGCAA ATAGTGACGT TGTAGCCGCC ATACGCATTT CATTTTCATC	120
5	AGTTCTGCCA TARATCARTG CATAGTCTGC ARTTTGRGCC ACTGGRTTAT TAGCTGTACT	180
	AGATATAGTT ATGATGGGAA TACTGTAATG TGTGGCCACC TGTGCAATTG ACTGCAATTC	240
10	ACTATGGACT ACCTTGGATT CGTCACAAAA ATCATGCAAT CTCTATCATC ATGCGTCGCA	300
10	AATGTTGACA CAAGTGAAAT GCGTTTCCAT GTAATAACCT GACATTTGAA GCCATACGAG	360
	ATAACTTTGG AAAAAGATCA CCAATAGnCC AACTCGATGG	400
15	(2) INFORMATION FOR SEQ ID NO: 2932:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2932:	
25	CTTTCAGTAG CAGCTACAAT TGTCTTTAAC ATTTAAGTTT AAAGCTGTAT GTGTCAACCG	60
	CARATACCGA TAGCCATTCA CTAATGAAGT TTCAACTAAT TTAGTACGAT CTGACAATAA	120
30	CTTTTTGTAA TCTTGGGCTG CTTCAGCTGA TACAGCAATA TTTCTCATTG TTTTAACAGC	180
	TTCTTCAGGA TATAAACCAG CAGCAGTTTC ACCAGATAAC ATTACTGCAT CTGTACCATC	240
	ATAGATTGCG TTGGCAACGT CACTAGCTTC TGCACGTGTA GCACGTGGGT TACGTTGCAT	300
35	AGAATCTAAC ATTTGTGTAG CTGTAATAAC TGGTTTACCT AATTTGTMAC ATTGTCTGAT	360
	TAAATCTTTT TGAACCATTG GGACTTTnTC AG	392
40 45	(2) INFORMATION FOR SEQ ID NO: 2933: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2933:	
<i>50</i>	TGACTATGGT ATCGCATGTT GTGTATCAGC GATGACAATT GGTAAACAAA TGCAATTCTT	60
	CGGTGCACGT GCGAACTTAG CTAAAACATT ACTTTACGCT ATCAATGGTG GTAAAGATGA	120
<i>55</i>	AAAATCTGGT GCACAAGTTG GTCCAAACTT CGAAGTATTA ACAGCGAGTA TTAGAATATG	180
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	ATTAAATGTT ATTCACTACA TGCACGATAA ATACAGCTAT GAAACGTAATT GAAATGGCAT	30
	TACATGATAC ANAAATTGTA CGTACAATGG CAACAGGTAT CGCTGGTTTA TCAGTAGCAG	36
5	CGGACTCATT ATCTGCATTM AATATGCACA AGTTMAAACC	40
	(2) INFORMATION FOR SEQ ID NO: 2934:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2934:	
	AAAATATGCC ATGACTGGCA TGACAAGAAT TGGACGTTAG AAGCATCTCA AACTGGTACG	6
20	TTCAGAGGTC GTAACTnTAA CTTCAATGGT GAAGGATTCT CACGTCAAAC ATTTAAAGTA	12
	AATGCCGTTA GTCAAAAAGA CTACGACAAA TGGGTGAAAG AAGTTAAAGG TAAGAnAACG	180
25	TTAGATCAAG ATACATTTGA TAAACAATTA TTACCAAGCA CACCTAATAA AGCTTTAGAA	240
25	TTTAATGGTA CACATATGGC GTTTGTTGAT CCAGCAGCCG ATCCAGAATA CATCTTCTAT	300
	GCATATAAAC GTTTCAATTT CGGATTGAAG GTCCCAAACT TCACTAGTGA GGAAAATATG	360
30	TTTAAGGTGT ATCAGACAAA CCCTTAATAC CTGCTCGTGA	400
	(2) INFORMATION FOR SEQ ID NO: 2935:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(with approximate programmers)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2935:	
	ATGGAGTATA CAACTACTTC GGCATTGGCG CTTACGACAA CAATCCTAAC TACGCAATGA	60
45	CGTTTGCAAG GAATAAAGGT TrGACATCTC CAGCAAAAGC AATCATGGGC GGTGCTAGCT	120
	TCGTAAGAAA GGATTACATC AATAAAGGTC AAAACACATT GTACCGAATT AGATGGAATC	180
	CTAAGAATCC AGCTACCCAC CAATACGCTA CTGCTATAGA GGGTGCCAAC ATCAAGCAAG	240
50	TACAATCGCT AAGTTATATA AACAAATCGG CTTAAAAGGT ATCTACTTCA CAAGGGGTAA	300
	ATATAAATAA AGAGGTGTGT AAATGTACCA AATAAAAGAT GTGAAACGAG AATTAAAAAT	360
	GATGGTGTTG ACTTAGGTGA CATTTGGCTG TCGTTTTACA	400
<i>55</i>		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2936:	
	AAACAATACA AACAAAAGAA AGTCAACCAA GGATGGATTC CTATTTTAAT CCTTGGTTGA	60
	CTCTTATTTT ATTTAAATTG TAGAACCTAG AAAATAAAGT TTAATTAAAA GCACCAATCA	120
15	TTTCTACTTT GAAATCTAAG GTTTCTAAAA TAGCAATGAC TTTCTTTATA TCGGTTGTAA	180
	TTGCAGAATC AGCCTGAACG AAAAATCGAT ACATACCTAA TTGTGTTTTT AAAGGACGAG	240
	ACTCAATCCA GGGTAAATTA ATATTAAACA AAGCAAATGT ATTAAGCACA CTTGCTAACA	300
20	ACCCGGGTTA TCATGCATTG GTGTAATTAA AAACATCAAT GGTGTCGCAT TTTGATCAAA	360
	TGCTGCTGAT TTTTTATAAC TAAAAACGTG TCAGGTATGT	400
25	(2) INFORMATION FOR SEQ ID NO: 2937:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2937:	
35	TTATTATCTT GATACATTGA GTGTATATTC CATTTTCCAT GAGGCGTTAA ATAACGCATA	60
	CCAAAGCATC TGTACCACCT TTAATTTTCT TATCTCTATT CCCAAATACC ATTGGCGGCA	120
	ATGTCGGTTT ATATACTGGT AAGCTCTCCC CAAATTGTTG GAAAACTTCG TGATCCACAT	180
40	AATAACTTIG GACGTCCTGT TAATGTTCTA AAAGGTACTA GACGTTCTAT ATTCGTTGTA	240
	AATGGTGGAA TATCGTCGAC CTTGTTTATT TGAACCGGGG AATACTGCTG TCGGTATTAC	300
45	TTCTCGTGGT TGTGGAAGTT ATATTTAAAA ACGGAAATTT TCTCAGCAGC GnTTTCGTTA	360
	GGAAATATCT TTTAACGGGC ATTCCAGTTT GTTCnTCGGG	400
	(2) INFORMATION FOR SEQ ID NO: 2938:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2938:	
	TATCTCTTAA AGCCGGTGAT GGTGGTAATG GTATTACCGC ATACAGAAGA GAAAAATATG	6
5	TACCATTIGG TGGACCAGCT GGCGGTGACG GTGGTAAAGG TGCTTCAGTC GTATTTGAAG	120
	TGGATGAAGG TTTAAGAACG TTATTAGATT TTAGATATCA ACGTCATTTT AAAGCAAGCA	180
10	AAGGTGAAAA TGGCCAAAGT AGTAATATGC ATGGTAAAAA TGCGGAAGAT TTAGTATTAA	240
	AAGTTCCACC TGGTACAATT ATTAAAAATG TTGAAACAGA CGAGGTTTAG CAGATCTTGT	300
	TGAAGATGGT CAAAGAGCTG TAGTAGCGAG GGCGGTCGAG GTGGCCAAGG TAATTCACGT	360
15	TTTGCAACAC CTAGGAAACC CTGGCACCTG GACTTCATGG	400
	(2) INFORMATION FOR SEQ ID NO: 2939;	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2939:	
	CTAACCTCGA GTTCGTATTA TGCCCACCAC ATGTCTGCTG GCTTGTCGTA AATATTAACA	60
30	GATTTCAAAG TTTGACAAGC TTTTTGGAAA CCTTCTTCTA CTGACATAAT AGGATCTTCA	120
	TGTTCAATAC TTAATACATA ATCATATCCA TTAATAATAA GTTGACTTAT GATATCTGCC	180
	CATACATATG GACTATGTCC TAAGCCAACT GTACGGAATG TCATGCTCTT GTCGCAACGT	240
15	TACCATATGG TTGCATATCA GTTAGACCAT ACATATTTAC ATTTTCTTGG ATTAATATAC	300
	GTATCTTTAG CATGGAAGTG ATGAATTGCA TTTGCTTGGn CTAATATGCG AATCGCAGCC	360
10	AATTGGGTCA ATAnCnTGGC CACC	384
Ю	(2) INFORMATION FOR SEQ ID NO: 2940:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2940:	
	TTTCATATTT TTCTATTAAT GATTCATATT GTAGGGTGAT TGCAATGTCA TCTAAGCCAT	60
	TTACAAGTTT ATTCTTCCAA GTTTCATCAA TTTCAAAATG GAAACGCTTG TCTGGTGATG	120
3.5		

	CACTITITIC TAAAACGATA GGCAACATCG CATTITTAGT GCAATTCATA TAAAATATGT	240
	CACTGAAACT TCCTGCAATA ATAATATGAA AACCATAGTC CTTAAGAGCC CAAGCAGCAT	300
5	GTTCACGACT TGAACCACAT CCAAAATTAT CTCCAGTmAT TAAATmGGAG GCCCCTTTAT	360
	ATTGTGGTTT GTTAGGGTTG AATCAGGGTT TnTnGGAACC	400
	(2) INFORMATION FOR SEQ ID NO: 2941:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 409 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2941:	
20	ATCATAATCC ATCGTGCGTC CAAGAAGTAC TTGATTATTT AAAGTTTGTA TTGTGAATCC	60
	TGTGCACATT GTTCTCACTC CTCTGTACCT TCATTTACTT TAATCACTTT CAAATAAAGC	120
25	TGTTTCACTT AAACATACTA TAAAAAATCA ATTATACAAG CAATTAATTG ATATTCATTC	180
25	TCARTARCTG TGGTATGATA TGTARGGARA TCATGACTTA TGTGTGAGTG RACGATCATC	240
	TATACATCCG TTCACTTCAT CTCATGACTT TCTATATTTA ATTTTTACAA GGGAGTGACA	300
30	TCTGTGAATA ACACACAATC TTCACCACGC GTAATATLAT TATTGCGATT ATGTTGTCTG	360
	CATAACATAT GGTTGTTGCA CAATCATTAT TANTATAGGA CCTCCGTTG	409
	(2) INFORMATION FOR SEQ ID NO: 2942:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2942:	
45	ATGAAGTGTC AAAAGGTTTA AAAACATCTG AAAGGGGTTC GCACATGTTT TAAACTTTAA	60
	AAATAAAGGT GGATGTCCAA AATGTCGACC AGCAATCAAC TATTATTTAA ACATGGTTTA	120
	TCCACATGAT CATGAAGATG AAAGAGAATC AAGATTTGCT AACGAACGTT ACCATGCGAA	180
50	TATTCAAAAT GATGGTACAT TTTCTGTTAT ACCTCAAATG CGTGGGGGTG TTACAGATGC	240
	AGACCAACTG ATTCGTCTAG GAGAAGTGGC TAAGAAATAT CATGTGCCAC TAGTTAAAGT	300
	GACAGGTTCA CAACGTGTTG GTTTGTATGG AGTTAAAAAA GAAGATTACC AAATATATGG	360

(2) INFORMATION FOR SEQ ID NO: 2943:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2943:	
	ACCTGGAAAT GTATGTGCCA TCTCTTTAAG CCAATCAGTA TCTTGAATAC CTTTCGTTCC	60
45	AACTATGCAA TAATTAATCC CTGCGGCAAA GTAGTCCATG ATTGTGACTT CGTACGAATG	
15		120
	CCACCACCTA CTTCAATATC TTTGGTTGTT AATCTCCTCA ATGACTTAAT ATAATCAAAC	180
20	TCTCGGGCAT GCTGTGCCTT AGCACTCATC AAGTCGACGA TATGAATACG ATTCACACAT	240
	TCAAATTGAC TATAGTAAGC AATACTTTCT TCAGCCGAGC GTGGACATTT TTTCTTCACT	300
	ATCATATTTA CCCTCTGTTA ACCTCACACT TGTTGACCCA ATCAAATCAA	360
25	ATAATTCAAT CATTTNATAA ATCCCCCTTG TATTGGCCTG	400
	(2) INFORMATION FOR SEQ ID NO: 2944:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2944:	
	AACAAAAGGG GTCTATCGTC AATCGTTTCT TGAATAGTGT TGAAAAAAATC GGAAATAAAT	60
	TGCCAGATCC TAGCGTCTTA TTCTTTTTAA TGTGTGTGGG CTTAGCCATT ATGACATGGG	120
40	TTATCTCATT ATTTAATGTA TCTGTTAAGC ATCCAGGTAC GCATCAAACC ATTTATATTA	180
	AAAATATAAT TAGCCATGAT GGATTTACGA TGATAATGAA TGATACGATT AAAAATTTCT	240
45	CAGAGTTCCC AGCATTAGGC TTAGTACTAG CAGTGATGAT TGGTATTGGT GTTGCAGAGA	300
45	AAACAGGATA CTTCGATAAG TTAATGATTT CTGTTGTGAA TCGCGCACCA CGTTTCTAAA	360
	TTTACCGCTA TAATATTAAT GGGAATTTTA GGGAGTCAGA	400
60	(2) INFORMATION FOR SEQ ID NO: 2945:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2945:	
5	ATTITACAAG TAACGGTGCA TCACCAGATT CTAATTTAAT GTCATGCTCA GCAGCATTIT	60
	GATAACCCAA CTTTTCAAAG TAGTCAAAAC AATGGTCTAC AACAACCGTA CTATACTCTT	120
	GTGCTTTGGC CGCTCTTCTA CTGCTTGAAC CAAGCCACGA CCTAATTTTT GTCCACGTAA	180
10	TTCAGGATGA ACTGATAAAG AGGCAATCGC CAAACCATAA TACGTCTTAT CATCACTATT	240
	AATTTCTACT TCAATTAATA AAACGTGTCC AACGACATCG TTATTTTCAT TTTTCGCTAT	300
	TACTTCTAAT TCAAAATTAT AGCAAGGAGA TITTCTTAAA TGGTTTACTT TCGGCACGTG	360
15	CCTGGCCAAC TCGTTTTCAG GATTATCATC CAAACTTTCC	400
	(2) INFORMATION FOR SEQ ID NO: 2946:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2946:	
	GGAAATAATT ACTTGAGCTA GATAAGTTGA CAGCTGTGCA ATTATTTTCA GCAGCTAATT	60
30	GTAAAATTCG CTCTAATCTT GCTGATGAAT GTTCAGGCCC TTGACCCTCA TATGCATGAG	120
	GTAAGAATAA TGTTAATCCT GAACGTTCTC CCCATTTTGA GCGAGAACTG AATAAGAAGT	180
	TGTCAAAAAT CATTTGTGAC ATATTTGGCA AAATCACCAT ATTGTGCTTC CCAAATATTG	240
35	AAGCTTTTTT TGTTTTCCAC ATTATAGCCG TATTCAAAAC CAACTACTGC TGCTTCTGAA	300
	GCGGAGAATT GTGTATATCA AATGTCGCTT TTTGAnCAGG AGCATGATGT AAAGGTGTAT	360
40	ATGTTHCACC HGTTTGCTCA TCATGTHACA CGGCAGCCGT	400
	(2) INFORMATION FOR SEQ ID NO: 2947:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2947:	
	AAGTGGCATA AAAAAATCAC ATGACGATAC ATTGTCGTCA TATGACTTTA AATATTATTC	60

	TTCAATTGTG TCACCGATTT TTAATACATC TTCCACTTTT TCAATTCTAT TTTTTGAAAT	180
5	TTGTGAAATG TGAAGCAACG CATCTTTACC TGGGAATAGG CCTACAAACG CACCGTATTT	240
•	TTCAATACGT TTAACAGTGG CTTGGATAAG TTTGACCTAC TTCCGCTTCA CGTGTAATTT	300
	CCTCAATGAT TTCACGAGCA CGATTTATCA TAGCTTGATC AACAGCACCC ATAAAGATAG	360
10	TACCATCCTG GNCCATATCN AATTTAACAC CNGGNTCCTC	400
	(2) INFORMATION FOR SEQ ID NO: 2948:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2948:	
	TTTTTCAAGT TTTGCTGAAG GCTTTACACA AGGCTATTTA ACAATGGATG CCATTGCAGC	60
25	AATTGCTTTT TCAATGATTG TTGTTAATGC AGTAAAACTA ACAGGCATTA CTAAAACAAA	120
	TCAAATATTC AAACAAACTT TGACTGCTGG TTTAATTGCA GCCGTAGCTT TAATTTTCAT	180
	ATATATTCA TTAGGTTATA TTGGTAATCA TATGCCAGTA AGTGACATGA CGTTAGATCA	240
30	ATTGAAATCC AAAGATCGAA ACATTGGGAC ATATTTATTA ACGACAATGG CTTCAACAGG	300
	ATTTGGTCAT CCGGAAAATA TTATTGGGCA TCATTGTGGC GCTGGCATGC TAACTACAGC	360
	ATGCGGGCTA TGGTGCAGTT CCTGAATATT CCATAGATCG	400
35	(2) INFORMATION FOR SEQ ID NO: 2949:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2949:	
	CATGGCTTCA GATTGTTTGA ATTGAATGGA CAATTTTGGn TTCTGTCCAA AATTCTTACA	60
	AAATCTTCTA CCGATAAACT ATCAAGTTCA ACTCTAATCG GAAAAACGAC CTTGCAATTC	120
<i>50</i>	TGGTATCAAG TCACTCGGCT TAGATACATG GNAAGCTCCA GCACCTATAA ACAGCATATG	180
	TTCAGTATTC ACAGTACCAT ATTTGGTTTG AATAACGCTA CCTTCAAGTA TAGGTAAAAT	240
	ATCTCTTTGA ACACCTTGTC TTGAGACATC TTGACCACTA TTATGATTAT TCGTCGCAAC	300

	GTTAGCGCTT TCTTGATCAN TTAGTTCATC CGCATAACTA	400
	(2) INFORMATION FOR SEQ ID NO: 2950:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) 10105001. Illieal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2950:	
15	TTGACTTTGT AACTAAACTA CTCACTCGAC CGACTCAACT GTTTAAATGT TTCAGATGGT	60
	TTAACTCTAA ATACTACGTA TAAATCACCA GCAGGTCCTC CATTCACGCC TGGAGAGCCT	120
	TCACCAGCTA ATCTAATTTG TTGTTCATTG TCGACACCTT CAGGTACTTT CACTTCTAAT	180
20	TTAACTGTTT TATTTTCAGT ACCITTTCCG TGACATGTTG GACAAGCTTC TTCAAATTCT	240
	TGACCACTTC CATTACATTT AGGACAAACT TGTTCAGTAC GAACTCTACC TAAAATTGTG	300
	TTTTGTTCTA CAGCTACATG ACCAGCGCCA TTACAGTAAC TACAAGTCTT TTTACTTGTT	360
25	CCAGGCTTTG CACCATCACC ATGACATGTT TCGCATGTNA	400
	(2) INFORMATION FOR SEQ ID NO: 2951:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2951:	
	CAATGATTTT AAAAGATGCA ATAAAACCAA ACTTAGTACA ATCAATTGAA GGGACACCTG	60
40	CATTAGTTCA TGGTGGACCA TTTGCGAATA TCGCACACGG TTGTAACTCA ATTTTAGCAA	120
	CTGAAACAGC ACGTGATTTA GCTGATATCG TTGTAACGGA AGCTGGATTT GGTTCAGACT	180
	TAGGCGCTGA AAAATTCATG GACATTAAAG CGCGTGAACA GGATTTGATC CGGCAGCTGT	240
45	CGTTGTTGTT GCGACAATTC GTGCGTTAAA AATGCATGGT GGTGTAGCGA AAGATAATTT	300
	AAAAGAAGAA AATGTAGAAG CAGTAAAAAG CAGGAATGGT TAATTTAGAG CGTCATGTTA	360
50	ATAATATTAA CAATTCCGTG TAGANCCGGT TGTTGCCATA	400
30	(2) INFORMATION FOR SEQ ID NO: 2952:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(wi) CROWINGS DESCRIPTION, CRO. TO MO. CO.C.	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2952:	
	TCAAGTAGCA AAAGAAACAG GTGCTTCAGT TATCGGTATT GATATTGGTC CACAAGCCGT	60
10	TGACCTAGGG CGCAGAATCG TTAACGTCTT AGCACCAAAT GAAGATATAA CAATTACGGA	120
	TCAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT	180
	ATTCCTTTAA AGTACAGCAT TTTAGAAGAA TTATATGATT TAACAAATGA AAATGTCCGT	240
15	AGTTGCAATG CGCTTTGGTG ATGGCATCAA AGCAATATTT AATTATCCGA AGAAACAGCG	300
	GAAGATAAGT GGGCCATGTG TGAATAAACA TATGAGACCA CAGCAAATTT TTGATATAGC	360
	ACTINATNAA ANAGCCGGCT ATAAAGTNGG TATTACGGAT	400
20	(2) INFORMATION FOR SEQ ID NO: 2953:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953:	
	CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA	60
	TTATCCCATG GGnTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT	120
<i>3</i> 5	ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC	180
	ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC	240
	TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA	300
40	ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT	360
	AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA	400
45	(2) INFORMATION FOR SEQ ID NO: 2954:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2954:

	AACACTITAA TGGAGATITA GCAGGCACTG TTACACTGAC AGCAGGTTTA GGTGGTATGG	120
	GTGGTGCGCA ACCGTTAGCA ATTACTATGA ATCATGGGGT AGCAATTTGC GTGGATGTTG	180
5	ATGAAACACG TGTTGATAAG CGAATTGATA CGAAATACTG TGATGTTAAA ACAGCTGATT	240
	TAGATGAAGC ATTAAAATTA GCAGAAGAGG CGAAAGAACG TGGGAGAAGG ATTATCAATC	300
10	GGGTTAATTT GGAAATGCTG TAGACATCCC ATCCAAGCGG ATTCTAGGAA AAAGGGTTTT	360
	AAAATTGGAC ATTAATTACT GGnCCCAAAC CAAGTGCCCC	400
	(2) INFORMATION FOR SEQ ID NO: 2955:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2955:	
	TTCAGAATAC GAGCAATGTC.AGTTGCAGTG TTTAATAAAT TTTGTTCGCT ATTTTGTAGG	60
25	CATCTTCTAA AGTGCTAGGT GAAGAGATTA TAGAATAGGC ACTATCAATA CCGAAATCGT	120
	AAACATGTTG ATAATTTTCG CCTAGACTGC CACAAATCGC GATGACAGGA ATATGATATT	180
30 .	GTTTTGCAGC TAACGCAACG CCTACGGGTG TTTTACCAAA GATGGTCTGA TAATCCATGC	240
	GTCCTTCTCC AGTAATAACG AGGTCTGCAT CTTTAATTCT TTGATGAAAA TCTGTAATGT	300
	CAAAGACGAC ATCAATACCT TTTGTTAAAG TTGTCTCACA AAACGnTAAT AATGCTGCGG	360
35	CCATACCGNC AGTGCACCAG AACCTGGTAT TTGGTTNACG	400
	(2) INFORMATION FOR SEQ ID NO: 2956:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2956:	
	AATACGTCCT TTATATAATG TTAATAACCA GTTAAACAAT TTCACACCAG TTGGAATACC	60
50	AATCAGCATT GTTGAAATTG AGAAGAATGA GTTGATTAAC GCACCATTAC CCATTGTGAA	120
	GAAATGGTGA ACCCAAACTA AGAAACTAAG GAACGCGATA CCGGCAGTTG CCCATACCAT	180
	ACTTTGATGT CCGAATAAAC GCTTACGAGC GAATGTCGGG GATAATTTCT GAGTAAATAC	240

	COMMONATE GOSCATACCO CCATGTGGCA CTGTGGAAGA ATGCTGTGTC CAATATTCCG	360
_	nTCATTGGTn CATTAATGGC TAACGCTAAC GGTTTAAAGG	400
5	(2) INFORMATION FOR SEQ ID NO: 2957:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2957:	
	TAGTAATTAA TACGATGTCA GCACCTACTG ATTTTGCTTT GTCTGCTAAT AATCTTAAAT	60
	GTTCCGTGGA CCTGAACCAG AGATAATTAC AAATACATCA TTCGACTTAA TCGCAGGTGT	120
20	CGTTGATTCT CCAACAACAT GTGCCTGTTT GCCGAGCTGA TTTAAGCGCA TTGCAAAACT	180
	ATTCGCCACG AATCCTGGAA CGTCCTTTGC CAGCTACAAA TATATGTTCA GCATGTAGTA	240
05	TTTTGGGATG CAAAAGTTGG AAAACTCCAT CCGnTTCAAC ATGTGACAAA GTCATCTTTG	300
25	AATTCATCTA GANTTAATTG ATAGTCACTA ANTTTAGCCA TATTACTTAC CTTCGGTTGC	360
	CAGCGCGACC ATTGTTTCGC AGCTTCTTAC TGGG	394
30	(2) INFORMATION FOR SEQ ID NO: 2958:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2958:	
40	AATTATTCTA CCTATAATTA AAAATGCTGG CAAAGGTGTA ATGATGATGA GTAATGAACC	60
	TACAACATTT AATATCAATC CTACATAAGT AATTTTGACG CGACCAAATT TATCAGCAAC	120
45	ATCACCAGCA CCTACGATAA ACAAACCAGC AAATAAGGCA GATAAGCTAA CAGCGATTAT	180
	TTATCGTTCC AACGTCACTA CTATATGTTG ATTGTAATGG GACAACAAGA TTAACAAGTG	240
	ACTGCGCGAA TAGCCAAAAG GTAATAACCC CTAAAACGAT ACCCAAAnGC AATCGGTTGT	300
<i>50</i>	TCACCTCTTA AATTGTTTTG ATGTGTCCnT GGATTAGGAT AAGCCTCCTA TGTTTAGGAA	360
	AAACAATTT TAATATGGTA TATTAAGGAN ACATTTCCTT	400
	(2) INFORMATION FOR SEQ ID NO: 2959:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2959:	
10	CTTCTTTCTC AACATCAAAG AACATATGGT TTTGTTTCAA ATATTCTTTT ACTAGCGCGA	60
	TATGTTCGTC TGATCTACCA GTTAACTTCA TATATTTAAG AGATTCATCA TCAACTGGGA	120
	AGAATCCGCA AGTTGCTCCA TACTCTGGTG CCATGTTTGC AATTGTAGCA CGGTCTGCTA	180
15	GTGGTAAATG TTGTACACCT GGACCAAAGA ACTCCACAAA TTTACCAACA ACACCTTTTT	240
	TACGTGGCTC TTGAGTTACT CTTAACGCTA AATCAGTTGC TGTTGCGCCT TGTGGTAATG	300
	AATTTACTAG TCGTACACCA TTAACCTCTG GAATTGGGGA AATAGGAGGG TTGTCCAGGC	360
20	ATTCCAGCTT CAGTTTCAAT ACCACCAACA nCCCTCCTAG	400
	(2) INFORMATION FOR SEQ ID NO: 2960:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2960:	
	ACGTCAAATG TAATCACAAT CGGAAAGTAT CGTGACAATG CATATATAAC AGGGAGGGTT	60
<i>3</i> 5	TAAATATGAG TTACTAAGGG GATITTTAGA TTTAGGTGCA CTGTTTATTT TACCGGTTGT	120
	CATATTCTTG CTTGGCCTAT TCTTTAGGCA GAAAATTGGA GCGGCATTTA GGTCTGGTTT	180
	AACAATAGGT GTGGCTTTTG TAGGGATTTT CTTAGTCATC GATTTATTAG TTAAAAATTT	240
40	AGGGCCAGCA GCACAAGCGA TGGTTAAAAA TTTAGGCGTC AnTCTGAATG TGGATTGATG	300
	TAGGTTGGCC AGCAACATCA TCTATCGCTT GGGCATCATC TGTnCGCnCC ATTTTATTAT	360
	TCCACTCGGG ATTCATAGTT	380
45	(2) INFORMATION FOR SEQ ID NO: 2961:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GGCCATTGGT CGAACTTACG AAGAATCATT GTTAAAAGCA ATTCGATCAC TTGAGTATGG	60
5	TGTGCATCAC TTAGGATTAC CAAATGGTGA AAGCNTCGAT CTTGATTATA TTAAAGAACG	120
J	TATTTCACAC CAAGATGATG GACGATTATT TTTCATCGGC GAACAATTAG AAGAGGCACA	180
	ACAGTAGAAG AAATTCATAA TATGACTCAG ATTGATTACT TCTTCTTACA CAAGTTCCAA	240
10	AACATTATTG ATATTGAGCA TCAATTAAAA GAGCATCAAG GTGATTTAGA ATATCTTAAA	300
	TATGCHAAAG ATTATGGHTT TAGTGGTAAA ACAATAGCGC ATCGCCTTAA TATGACGG	358
	(2) INFORMATION FOR SEQ ID NO: 2962:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2962:	
	TTTGGGCATC ATTAGGAAAA TTCTTTGAGC AACTTTAGTG TCTACTGGGT AATACAATTT	60
25	TATCACCATG TTTTCTAAT AAATCTTTTG CGAATCGATT TTATCTTCTT CTAATAATGA	120
	AATACCAATT TCTTTACCTT GCGCTTTTAA GAAAGTATAA GCCATACCTC CGCCGATGAT	180
30	AATTTTATCA GCTATGTTAA CTAAGTTTTT GATGACATTA ATTTTGTCAG ATACTTTTGn	240
	GnCACCTAAA ATAGCAACAA CTGGTTTATG TGGATCGTTA ACTACGCCGC CAATAAACTT	300
	AATTTCTTTA TCCATTAAGA ATCCAGCTGC AGTTTCTAAA TGTGTAGAAA TACCAACATT	360
35	ATTn.	364
	(2) INFORMATION FOR SEQ ID NO: 2963:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 372 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2963:	
	GTTGATTTCT TGAAAGATAA TAAAAAATTC AAAGAAATGG GATCTAGGAT TCCTAAAGGT	60
50	GTCTTACTTG TTGGACCTCC AGGTACTGTT AGAAACATTA CTTGCTAGAG CGGTTGCAGG	120
	TGAAGCTGGC GCACCATTCT TCTCTATTAG TGGTTCAGAC TTTGTAGAGA TGTTTGTTGG	180
	TGTTGGTGCG AGCCGTGTTC GTGACTTATT CGATAATGCT AAGAAAAACG CGCCTTGTAT	240

	TCATGATGAA CGTGGAACAA ACCCTAAACC ANTATTAGTT GAANGGATGG TTTNCGGTGG	360
	AAAATGAAGG TG	372
5	(2) INFORMATION FOR SEQ ID NO: 2964:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2964:	
,,	TTAGCAGAAC GCCCACAAAA CCTATCTCTT GCTGTAAAAG AATTTGTGAA nCTGCTGGCT	60
	TAAAACGTGT TGGCATAATT GCAGCTTTAG GAGCTACAGT TATGTTAGGT TTAAGTACAA	120
20	TTAAAAAATT ATGCCGTAAA TAGAGCAAGA CATAAACAAT AATTTAGGAG TCTGGAACAA	180
	TAATCAATGT TCTAGGCTCC TAAATGTTAT ATTGGCAGTT CTGAAACATT TATAAATCTT	240
	TGATTATGAA CTCACAACAG TGCTCTATGC TTTTATAGAT TTTAATAAAT TAGCCATTTC	300
25	AATTGCACTT ACTGCTGCTT CACACCCTTT ATTGCCAGCT TTCGNACCTG CNCCTTCCAC	360
	AGCTGGGCAA TACTGCCAGC CG	382
	(2) INFORMATION FOR SEQ ID NO: 2965:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2965:	
40	GGGAATCATA CAATCATTAC CAATAAACAT GTTACTTATC ACATGAAAGT CGGTGATGAA	60
	ATCAAAGCAC ATCCTAATGG TTTTTATAAT AACGGTGGTG GACTTTATAA AGTTACTAAG	120
	ATTGTAGATT ATCCTGGTAA AGAAGATATT GCGGTCGTAC AAGTTGAAGA AAAATCAACG	180
45	CAACCAAAAG GTAGAAAATT CAAAGATTTC ACTAGCAAAT TTAATATAGC ATCAGAAGCT	240
	AAAGAAAATG AACCTATATC AGTCATTGGT TATCCAAATC CTAATGGAAA TAAACTACAA	300
	ATGTATGAAT CAACTGGTAA AGTACTATCA GTGAATGGAA ATATAGTGAC ATCTGATGCG	360
50	GTTGTCCAAC CTGGCAGCTC TGGTTCACCT ATATTAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 2966:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2966:	
10	TGGGGATTCA CAGGCTAATA CATTTGACTT TATTAGCTGG TGGCGGTAAC GGCGCTGAAC	60
	TTTAAATGCG ATTCAAAGTG CTGCAATTAT AAGTGCATTC CCATTCTCCT TTGTCGTCAT	120
	ACTCATGATG GTAAGTTTCT ACAAGGATGC GAACCAGGAA CGTAAATTCC TAGGTTTAAC	180
15	ATTGACTCCG AATAAACATC GCTTACAAGA ATATATCAAG AGTCAACAAG AAGTTATGAA	240
	TCTGACATTC TTGAAAAGCG TCAGTCACGT GAAATATAGA GAAAAAAGAT AACTAATAAA	300
	GTTTAGTTAA GTATTTTAAT AACAAGTAGT ATGTCATTCT AGTAGCTAGA ACGGTMATAC	360
20	TACTTGTnTG TTTTTGTGGA AATTGAGTAT TTCAAAGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 2967:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2967:	
	ACGAGGAATT AGTGAAGTAC AATATTATCG GTGGTTTTGA TTTAGGTGTT GTTTCAGACG	60
35	ACTITAAAAA TCACATGITA ATAGCIGIAA CIGAATTAAG AACAAAAGAI GAAATCGATA	120
	CATTIGTAGA AAAGGCTGGT GAGTTAAATG ACTAGTAAAT CAAGTCCATT AATTITITGAA	180
	AGATCTCGTG AAGGCAGATA TGCATATTCA TTACCAAAAA GTGATATTAA AACAAATTCT	240
40	GTTGAGTCAT TGTTAGATGA TAAATTTATT CGTAAAAACA AAGCGGAGTT TCCTGnAGTT	300
	GCTGGAACTA GACTTmGTAC GTCATTAATC CTGGACCTTT CCAAATAAAA AATTCCGGnG	360
	GTAGACACCG GGTTTAACCC ATGGGGT	387
45	(2) INFORMATION FOR SEQ ID NO: 2968:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 806 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	MACANGIUCA AGTGAGTCAA CATCAGAAAG TGCGTCAACA TCACTCAGTG ACTCAACAAG	60
_	TACAAGTAAC TCAGGATCAG CAAGTACGTC AACATCGCTC AGTAACTCAG CAAGCGCAAG	120
5	TGAATCCGAT TTGTCGTCAA CATCTTTAAG TGATTCAACA TCTGCGTCAA TGCAAAGCAG	180
	TGAATCCGAT TCACAAAGCA CATCAGCATC ATTAAGTGAT TCGCTAAGTA CATCAACTTC	240
10	ARACCGCATG TCGACCATTG CAAGTTTATC TACATCGGTA AGTACATCAG AGTCTGGCTC	300
	AACATCAGAA AGTACAAGTG AATCCGATTC AACATCAACA TCATTAAGCG ATTCACAAAG	360
	CACATCAAGA AGTACAAGTG CATCAGGATC AGCAAGTACA TCAACATCAA CAAGTGACTC	420
15	TCGTAGTACA TCAGCTTCAA CTAGTACTTC GATGCGTACA AGTACTAGTG ATTCACAAAG	480
	TATGTCGCTT TCGACAAGTA CATCAACAAG TATGAGTGAT TCAACGTCAT TATCTGATAG	540
	TGTTAGTGAT TCAACATCAG ACTCAACAAG TGCGAGTACA TCTGGTTCGA TGAGTGTGTC	600
20	TATATCGTTA AGTGATTCGA CAAGTACATC AACATCGGCT AGTGAAGTAA TGAGCGCAAg	660
•	CATATCTGAT TCACAAAGTA TGTCAGAATC TGTAAATGAT TCAGAAAGTG TAAGTGAATC	720
25	TAATTCTGAA AGTGACTCTA AATCGATGAG TGGCTCAACA AGTGTCAGTG ATTCTGGCTC	780
	ATTGAGCGTC TCAACGTCAT TAAGAA	806
	(2) INFORMATION FOR SEQ ID NO: 2969:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2969:	
	ACCATCTACT CCGTTAATAG TTACACTGTT ATCATTGGTG TTTGGACTTT CAGCCCTTGC	60
40	ATCTAAAAAT ATAAGCTGAT TAAAAATCTGT TATTACTTCT TCCTTGTAAC CATCTATGAT	120
	TTTTACAAAA GATTGCATTA ATTAGTCAAA CCTCCCATAT AATTATTTGC ATTTGCTCTA	180
45	TGCCCACTIT GTTTTGACAA TATTTTTTCT AAACCTCTAA TTGCATCATT AGAACCTAAG	240
	GATTATCCTG AGAAGAAACA GTTTGAATCA ACGCATCTGT TAATTNATTN CCTTTATCAC	300
	TTAACATAAC AATTTGGTTC AACAATTTnC AACTGTAGAA GTATCATTAT T	351
50	(2) INFORMATION FOR SEQ ID NO: 2970:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 359 base pairs(B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2970:	
	AGTGCTTGAT GAATTTTGAC CACAAATTCA AATGTATCAG GCGTTTCTTT TATCCATTTC	60
5	AATATATTC TTTCCGGTTG TATCGCATAG TATGTCGCAT CTAATTCGAC AACCGGAAAA	120
	TGTCCAGCAT ATGTTTTAAG TTTATCGGTT TGGCGTTCTA AATCTTCATA TAATGAATAG	180
10	TGATCACCCC AACCTGTTAA TCCGATGTTT ATCATATATA TCACCAATGT CATCATACCA	240
	TATAACTTIT ATCATAATCA TITCAGCGAA CTTTAGTTTG ATGTTTTTGC TTGATTAAAA	300
	TCTTTTCGGC GAnCCTCAGC TTGATGTTTT TCGTTGATTA AATGGTAAAT AGnnACGCA	359
15	(2) INFORMATION FOR SEQ ID NO: 2971:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2971:	
25	CAGACGGTCA AGAATCTTAT ACTTATCAAA ATTTATACTG TGAAGCGAGT CTATTGGCTA	60
	AAAGACTCAA GGCTTATCAA CAATCTCGTG TTGGGCTATA CATAGATAAT TCGATTCAAT	120
30	CGATCATTTT AATACATGCA TGTTGGTTGG CAAATATTGA AATTGCGATG ATTAATACAA	180
	GGTTGACACC TAATGAGATG ACGAATCAGA TGAAGTCAAT CGATGTACAA TTGATTTTTT	240
	GTACCTTGCC ACTGGAATTA CAGGGTTTCA AATTGTATCG CTGGGTGATA TTGAATTCGC	300
35	TGGAGGGATA TTACAnCGAN CAGTTGTTGG GCAACACAAT GGGTATCCAT TTGAACCATC	360
	GGATGNAACT TTGTGCCGAA GGTCGCCTCC ACATNTAATG	400
40	(2) INFORMATION FOR SEQ ID NO: 2972:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2972:	
50	TCAACCGCTT TACAGCCAAC CGGCGACGCT GACATGGATC GCCTGGCCCA TGCCCACGCC	60
	TTGGCGCCAT CATTATTAAT TGCTGCAGTT ACGGTATCTT TAATTGCGTT AAATAAACCT	120

	AAATCACCGA AATGTTATTC GCTTAACGTT TTGTTGTTGT TATTTTAAAA TAAATTTGAT	240
	GCAATTAGTT TGTTTATCCG CACAACATCT TATAATGTAC TTAACTGTAT TTTAAAGAGA	300
5	AAAGAAATAC AGTTAGGCAT TCAAAACTGT ATTTAACACA ATTAAGTTGC CTGAATTCGT	360
	ATTTAAGTCT TATTGAACCT TTTTNAGATA An	392
40	(2) INFORMATION FOR SEQ ID NO: 2973:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2973:	
20	ATTGCAATGA TAGCAATCGG AATCGCACCT GCTAAAATAA ACGTTGTGCC ATCCGTCGCA	60
	TTTGTACCAC GAATCACAAT GTCACCAAGC GTAGGTGCTC CTATAAATGA TCCAACGGCA	120
	ACAACACCTA TCGCAACAAC CAAGGCAATA CGAATGCCAC CGATAATAAC CGAAACAGAT	180
25	AACGGTAATT CAATCATTCG TAGCACTTGA TTGCGTGTCA TTCCCATACC TTTGCCAGCA	240
	TCCTTAATAT TCGCATCAAC ACTAGCTATA CCAGTATAAG TGTTTTTATA ATTGGAAGTA	300
30	ACGCATATAA AAACACTGTT AAACTACTGT TCTGAnCTAG CCTGACTACA TTAAATAGTn	. 360
	ACATTGCATG ACTGGACTGn TGGATATATT GCATGGATnC	400
	(2) INFORMATION FOR SEQ ID NO: 2974:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2974:	
45	GTATTCTTTA GGTAATGCAA CTTTTAATCC TTTAATATCT TTACCAATTT CAGATGTAAA	60
45	GTCTACATCA TCAACTGGTG CACTTGTAGA GTCATTAACA TCTGCACCAG AAATAGCTTC	120
	TAATACGATT GCATTATCTT TTACATTTCG AGTCAATGGA CCAATTTGGT CTAATGAAGA	180
50	TGCAAAAGCA ACTAATCCAA ATCGAGATAC ACGACCGTAT GTTGGTTTCA TACCGACAAC	240
	GCCACAATAT GGCAGCCGGT TGTCTAATTG AACCACCTGT GTCTGGAACC TAAGCTAAAT	300
	GGTACTAAGC CAGCTGCAAC TGCTGCTGCA GATTCCACCT GANGGAACCA CCTGGGCACG	360
<i>55</i>		

(2) INFORMATION FOR SEQ ID NO: 2975:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2975:	
	GAGATCGCGG GTTCGATTCC CGTCGAGACC GTACAAATGC CTATCCAAGA GATAGTTTTG	6
15	THTTGCGTTT AATATATAT TAATAAAAGA TATATGGACG AATGATAATC ATATTGATTT	120
	ATCTGTTCGT CCATTTTCTT TAAAATGTAT GAACCTCAAG TAACTTAGTG GTTGGATATG	180
	AAAGATAAAC GTmGACAATA AAATCTTTAT TAGACGTACA AACATATGCT ACTGTCAACA	240
20	TATTTCTTCG TTGTGATATG CCACCAGTCC TCCATAACAT CAATTGTTAA AGTAACGAAT	300
	AACGAATAAT GATATTTMAT TTCTGAGCCA TGACGTGCCA CTAGAAGTTG CCCATTATCC	360
	T	361
25	(2) INFORMATION FOR SEQ ID NO: 2976:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2976:	
	TGCTGCTTCT GAAGCGGAGT AATTGTGTAT ATCAAATGTC GCTTTTTGAT CAGGAACATG	60
	ATGTAAAGGT GTATATGTTT CACCTGTTTG CTCATCATGT AACACGGCAT GCCTATGACT	120
40	GAATGTACCA CGTTCACTAT CTTGACCAGT TAAGCGAATC GGTGTACCAT CTTGTAAAAT	180
	TGTCGCAAAT GCAAGTHGTT CTGCTTGTGC CCAATCAACT AAACCATCTT CTTTATTAAA	240
	CGGCTCATGA CGCTTCTCAA GAACTTTGTT TAACTTTTTT CAAAATGTTA AAGCCATCCG	300
45	GATATGTTAA CAATGCATCA TTATTTCTTT CAAGTGATCC AAAAGTAAAG GNTTGT	356
	(2) INFORMATION FOR SEQ ID NO: 2977:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
C C		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2977:	
	CTTTAGAGCG ACACCTAGTC ACTGCAGCAA GCTATTTCTT TATTTGCTAT GCTATANATC	60
5	GTTAATTACT AGACCTATTG CTGGTAGATT GATGGATGAT AAAAATGAAA ATATTATTGT	120
	CTACCCAGCA TTTATCATGC TTTTCCTTTC ATTTGTATGC TTAATTTCAA GCTATCAAAG	180
	CTGGTTAATA TTACTTGCTG GTGCTTGCCT AGGTTTAGGG TATGGAAATT TATCATCTGC	240
10	AATGCAATCT ATTGCGATAA AAGTCTCACC CCCGATTAAA TATGGTATCG CGACATCTAC	300
	TTTTTACGTT GGTCTAGATG CCAGGTGTCG GCTTCGGTCC AGCATTCCTT GGGTTAnTTA	360
15	CGCAGnGTTT T	371
	(2) INFORMATION FOR SEQ ID NO: 2978:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2978:	
	TTGTAATTTC ATGATTACAC CTCAATTGTT CTTGTTGTTA AAACTCAATA TTTAATTGTC	60
30	TGCGCTCAAT AATTTGTTGT TTAAGTTGCT CAATATGATT TGATTGGAAT TCTTCCAATA	120
	ATGCTTTTGC TATTTCAAAT GCTACGACAT GTTCGCAGAC GATACTTGCT GCAGGAACAG	180
	CACAACTATC AGAACGTTCA ATTGTTGCTT TAAAGTCTTC TTTAGTATTA ATGTCTACTG	240
35	AATTTAATGG NTTATATAAC GTTGGAATTG GNTTCATTAC ACCATTACGA TAATTGGCAT	300
	CCATTGACAT ACCGCCTCTA ACCACCTAAG TGATTAGANC ACGATAATAC CAATTCACTA	360
	TATAT	365
40	(2) INFORMATION FOR SEQ ID NO: 2979:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2979:	
	TGATTATATA AATCTAACCA GCCAAGTTTC GTCTGCGGTG AGACATTGAC ATTAATTGCT	60
	GCAGATAATG ATTTAACAAC ATGTGTGGCA TGTGATTCAT TAACGATGAC AATATCATGT	120

	TOGCGATGGG TAACATIGTT AACATIGCTT CATTTAAAAC GATATCGAAT TGATTGTCAT	24
	CAAAGGGCAA TTTAACAGCA TTCGCTTGTT GAACTTGAAT ATATGATTCA NGACCTGCTG	30
5	CGGAAATGTT TTCCGTGCTT TTTCTAAGCC TTCnTATTAT ATCAACGCCT GANGTGACAC	36
	CANAGTGTGA GCCAGATAAA TAGAGGTGTG CACAGATACA	40
	(2) INFORMATION FOR SEQ ID NO: 2980:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2980:	
20	TTTCTGCTTT TGATAATCTT TCATCAATGC AAAAGCTACA TTGGACAGTC CTATAATGGA	60
	AATAATGTTT ACAATTGCCA TTAAGCCCAT AAATAAGTCT GCCGTATTCC ATACTGTTTC	120
	TGTTTTTACA ACTGCACCGA CAAAGACAAG TACTACAACA AGACATCTAA AGATAAATAA	180
25	TATTACACGG TTTGTTGATA AAAATTCAAT ATTAGATTGA CCGTAATAGT AATTACCTAC	240
	AACAGATGAA AATGCAAACA GTGnAACGCT TATTGGTTAA GAAAATACCT CCAGCAGAAC	300
	CTAAATGCTC CTTAAGTGCC GATTGGGTAA CTGCAACACC nTGGAGGGCG TTTATCACCA	360
30	AATTTnCGTC CCGAATATAG TAAA	384
	(2) INFORMATION FOR SEQ ID NO: 2981:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2981:	
	AATTCTAACG ATATCACCAT TTTTACAACC ACGTTCTCTA AGCGCATCAT CAATACCCAT	60
45	CGAACGCATT TGACGAGCAA ATCGACGTAC TGCTGGATCA CTGTTAAAGT CAGTCATTTT	120
	AAACATTCTT TCAATAGCAT TACCACTTAC CACATAAGCA CCATCATCAT CTCTTGGAAA	180
	TTGTAAATTT ATCTTGTGAC GGTGTATGTT TATATAATAC TCGGTTAATG CCAACTGACT	240
50	CCTCTTCTTC AACTGTGGAG TCAACATCTT TATATTCTTC TGAATTTATC TGCTTATTGC	300
	ATATGAATAA TTGnnCAATG ATTATCACGC GTTATTGTTG GAAACTGGGA TTAACTGGCA	360

(2) INFORMATION FOR SEQ ID NO: 2982:

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2982:	
	CCTCAACCGC TTTACAGCCA ACCGGCGAGC GCTGnACATG GATCGCCTGG CCCATGCCCA	60
15	CGCCTTGGGC NCATCATTAT TAATTGCTGC AGTTACGGTA TCTTTAATTG CGTTAAATAA	120
	ACCITCCATT GAAAACACTC CTTAAAATTT AAATTTGAAG ATAACAAAAA CGTGCGTACT	180
	TTHTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTTGTT GTTGTTATTT TAAAATAAAT	240
20	TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA	300
	AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC	360
	TGAATTCCGT ATTTGAAGTC CTAATGGAA	389
25	(2) INFORMATION FOR SEQ ID NO: 2983:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983:	
	ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT	60
	ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG	120
40	GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT	180
	CTAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT	240
	CATCAATAAC AATACTCAGA TITTAATTIT TTAACAAAGT CTGTTACTAT ATTTCTCTAG	300
45	CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT	360
	CGnGnTCCAT TACCGCCAC	379
	(2) INFORMATION FOR SEQ ID NO: 2984:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2984:	
5	ATGCTGAAAA TATGGTGCCG TTTATATGAA TCAATTTGAA TCCGAACATA ATCCGGATAC	60
	ATATTTTCAT ACATTGGGAC CCGAATTGAC TTCAGCATTA CAGCAAATTG ATTATTTTGT	120
٠	GGCTGGTATT GGCTCTGGCG GTACATTTAC AGGTACGCAC GTTATTTAAA GCAACATCAC	180
10	GTGCAATGTT ATGCCGTTGA GCCAGAAGGG TCCGTGTTAA ATGGAGGGCC AGCTCATGCA	240
	CATGACACTG AAGTATCGGT TCTGAGAAAT GGCCGATATT TTTAGAGAGA CGCTTGTAGA	300
	TGGGnTATTT ACGATTAAGA TCNAGATGCC TTTCCGAATG TCAAAGTTTG CTATAATGAN	360
15	GGTGTAGTAA GCAG	374
	(2) INFORMATION FOR SEQ ID NO: 2985:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 464 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2985:	
	GGAGCCACCA TTGGAGCANG TTACGGTGGA AAAGATACGG NAAGGTTNGT ATGACTGTAN	60
30	GTCTTGGATA GAGTAACAAA CCTAATTTGT TAACTCTAGG CCCCATATGT CGCAGTACCA	120
	TCTGCATGTG TTGTTACATT GTATGCATTT GTTTTACTTG GCTTCTTGLA TGTCGGGCGA	180
	GCTCCGTATG ACACTTGACC GTTTGCATGT GTTGTTACGT TGTATGCATT TGTTTTGCTT	240
35	GGCTTGTTTT GTGTTGGGCG AGCGCCATAT GATACTTGGC CGTTTCCATG TGTTGTTACG	300
	TTATATGCGT TTGTTTTGCT TGGCTTGTTT TGTGTCGGAC GAGCTCCGTA TGATACTTGG	360
40	CCGTTTGCAT GTGTTGTTAC ATTGTATGCA TTCGTTTCGC TTGGCCTCCT GTATGTCGGA	420
40	CGAGCTCCGT ATGATACTTG ACCATTGCAT GGGTGGTACG TNNG	464
	(2) INFORMATION FOR SEQ ID NO: 2986:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2986:

	AACTATTATA TTAACATACA AIGTAGGGAT GIGAIGCGCG TGAAGTTTAG GGATAAAGAT	120
	AATCGTCAAG TTAATTTGAC ATTTAAAAAG GATAATGAGA TAGCAGATGG CAATCATGTG	180
5	CTAGCTATTC CAACGTTTAA AAATCAATTG CTTTTTACCA AACATAATTT ACGGGGGATT	240
	GAATTTCCTG GTGGTAAAAG GGAACGCGGG GHAAAGTAGT GCTGGAAGCA GTTACACGTG	300
10	AATTATATGA AGAAACAGGC GCCAAATTGA AAAATGnTTA TTACATAGCA CAATGTnCC	359
10	(2) INFORMATION FOR SEQ ID NO: 2987:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2987:	
	TAGAATTCTT CTAATGAATG AGCTTCTTTA GAATGATAAC CATAACGAAT TCCGTCAAAA	60
	CGAGAAAGGT TTGACGAAGC TTCTGATGAT GCAATCACGT AATATGATGG AATACCAAAT	120
25	TTAGTATTTG GCAATGATAC TTCCTCAACG ACAGCACCTA AAGATTTTAA AGTTTCTACA	180
	GCGTTTTGAA CTGCTTCTTT TACGTCATCA GCTACACCTT CACCTAAGTA TTCTTTAGGT	240
	AATGCAACTT TTAATCCTTT AATATCTTTT ACCAATTTCA GATGTAAAGT CTACATCATC	300
30	AACTGGTGCA CTTGTAGAGT CATTAACATC TGCACCAGAA ATAGCTTCTT AATACGGTTG	360
	CATTATCTTT TACANTTCGG GTCATGGnCC CATTTTGGTC	400
35	(2) INFORMATION FOR SEQ ID NO: 2988:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2988:	
45	ATTCATTCAT AATTATCAAT CCTTTGTGTT AAATTACTAT ATAAATAGTG TACGAATTTT	60
	CGAAATTTGT GATCATAAGT TTATTCAATG CTAAACAATA AGGTTGAGAC ATAATCGTAT	120
	CTCAACCTTG AAATTATTAT ACGTTGACGT CACTAGTCAT TCAGTTTTCT TAATGCTGCT	180
50	ACAATCTCTT TTTTAGTATC TTGTACTTCA GAAGCTTGCT TAATCACTTT TGCAGGTGTA	240
	CCAGCAACAA CTGCACCAGC TGGTACATCT TGTGTCACAA TCGnGCCACT GGCAACAATA	300

	nGATTATAAC CGTGGAG	377
	(2) INFORMATION FOR SEQ ID NO: 2989:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2989:	
. 15	CCAGGNACCT GGACACGCCG GGTCTTATCA TCAATAATAG TAGCATGACA AATCTACTAT	60
	TTTTTCGCTA ATAAGTGGAT GTAATGCTAA TAATGTTGCT GTAGGGAAAC AGCCAGGATT	120
	AGAAATGAGC TTCGTTCCAT TGTTATCAAA CGATTGCCAT TCTGAAATGC TGTAAATAGT	180
20	CATGATTCAA ATCATCTTGT GCCTGCAGCA GTTTCTTTGT AATATGCTTC ATATATTTCA	240
`	CGnTTCTTAA TTCTAAATGC GCCAGATAAA TCGATAACAT GAATACCTTT TTCTACTAAG	300
	GGAGGGATAC ATGTTTACT TACGGGTGCT GGTGTCGCAA AGAAAATTAC ATCAAn	356
25	(2) INFORMATION FOR SEQ ID NO: 2990:	
30 ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2990:	
	TCATTTTCCA AGTGAGACTC TGCTCTTGCT TTGGCTAATT TAGCTCTTTC AACATCAATT	60
	TCTCTTGCAG TTTCTGCAGT CTGAACAATG ATTGAAACTT TATCTTTTCT AACTTCAACA	120
40	AAGCCATCGC TTACAGCAAT ATATTCAGTT CCATCGTGGA AATTTCACTT TTACAAAGCC	180
	TGTTTTTAAA GCAGCTACAG TTGGGAATAT GTCCACTCAT GACACCTATC TCACCAGCTG	240
45	TTGTTTGCAT AACAACGAGT TCAACATTAT CACGATTGTA AACAGAACCA TTAGGAGTGA	300
43	CAATATCTAG GTTTAAATGT CCATTATCCA TTCCnCCnGA ATTGGnTGA	349
	(2) INFORMATION FOR SEQ ID NO: 2991:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2991:	
	ATGGCCACGT TCATGCCAAT AGCTGTCGTA GTCGCATTTT CACGTTCTAG TATTGCATTT	60
5	TTTAAATGCG ATGTGTGCTC TACATAACGG CAAATTTTAA GTTTATGAAT CAACATATCA	120
	ATTGCTTCGT TTCGAGACAT GTCGTGGATC AGTAATTATC ATAGTTTGTT GATCAAAAAC	180
10	ATGAGAAGGT TTATTGAGAT GTGAATGTTT CGCGGTGTTA TCTACATTGT CAACCTCTGT	240
	ATCATGTTGT GTAATATCTG TATCATGAAG TTGCGGTTGC GCTGGTGCAT CTACTGCTAT	300
	AACTGGTGTA TTGCGTTTTA ATAATAGTAC AGTAGTnCAT TGTnGACAAG ACTNACCGAC	360
15	TTA	363
	(2) INFORMATION FOR SEQ ID NO: 2992:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2992:	
	AAGTTTATTT TAAAATTCGT AATAAAAATA ATAAACTCAT CGAACGATTT AATGGTCTAG	60
30	GTTTCCATAT CAACTATGAG TACATTAAAT TCAAATTCGA ATCACGTAAC GTAAAAGATC	120
	AAACAATCCC TGAATAAAAC ACCAAGCAAA TACCCTACAG TACATCATTA GCATGTATTG	180
	TGGGTTTTTC TACTTTTTGT AAATATTGAN AATTATNAGT AGTTGTTTTT TACTATTAGG	240
35	GCAGAATGCT TTACAATAAC ATGCAAGTGT CAATTAAGGG GAGCACTTGC ATAAATAGTA	300
	TAGGRGAGTG AGTAGTCCTG GCCATTTCCT GGAATTCCTT AATCGGCAC	349
40 45	(2) INFORMATION FOR SEQ ID NO: 2993: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2993:	
50	TTTGTGCAAT AAGCGCTTTT TGTTCGTTTG CTTTTGTTGC TAATTCATCT TTCGCAACAT	60
	CTTTAATTGT TGTATCTGCA GTAATACCTT GAATATCAGC AACTGCTTGA TCTTTAATTT	120
	GCGTAACATC ATTAGTTGTT TGTGCATTTA AGATATCTTG ATACGCTTTT TCTTTAGCTT	180
5 5		

	TTGCTTGATT TTGAGTTGTC ACAGCTTGAT CAACATCATT TTTAGCATTG ATTTAACCGC	300
	TGTGCTGGTT GCGGCTTGAA TTGAATCTTC CAGGCTTCGC TGACTACACA TACACAGTGA	360
5	Gngnaatatt tcggctgaac gcgtgcatgt gaangctct	399
	(2) INFORMATION FOR SEQ ID NO: 2994:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2994:	
	AATGACAGGA ATCGTCGTTG CCTTTACTAA TTGACCAGTT AATTCAAAGT TAGGTCCGGA	60
20	CATTTTGCCA TCTTTAGCAA TATCAGTATA TATAATGCCG CCAAGAGGTA TATCCGATAA	120
	CCGTCTCACA AACTAAATAA ATTTAACTCT GTGTCCTCTT CCCATCCGTT CACTTTAATA	180
25	TCTTCTCCAT AGGCATCAAC AGATAAATAA ATGCGACCTG GAAATGTATG TGCCATCTCT	240
23	TTAAGCCAAT CAGTATCTTG AATACCTTTC GTTCCAACTA TGCAATAATT AATCCCTGCG	300
	GCAAAGTAGT CCATGATTTG TGACTT	326
30	(2) INFORMATION FOR SEQ ID NO: 2995:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2995:	
40	CTAATGCCGA TGAGCAAAAC ACAAGCATTA GAAATTATTA AAAAAGTTAG GTACGTATAC	60
	AACATTGATT TTGATAAACC GAAGTTAGAA ATGTGGATTG ATGTATTAAG TCAAAATGGA	120
45	GATTATCAAC CAACTGTAAA AGCGGTAGAT GTTTATATCA ACAGTAACAA CCCGTACCCG	180
	CCTAACTTAC CAGCAATCAT GCGTAAGGAA CCTAAAAAAG TATCTATCGA GCCAGTAGAT	240
	AACGAAACCG CTACACACCA TGGGAAAATG CAGAATGACC CGAATTGTCA GACAAGGAAA	300
50	ATAGCGCTAG ATAGTTCATG AATAGTTGGC AGATTGGGGC GAACGATGAT ACGNCATTCG	360
	ATTGAAGTCA TATCGTCGTA CTTAACACCG GACGTTnGAA	400
55	(2) INFORMATION FOR SEQ ID NO: 2996:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2996:	
10	GAATGTAAGT GTCCCTTAAG CATAGTGCTC CCACCTTAAA TTTTGTTACA TACTTTCATG	60
	GAATGTACGA GAAATTACAT CTAATTGTTG TTCACGTGTT AATTTAATGA AGTTAACAGC	120
	GTAACCAGAT ACACGGATGT TAACTGTGGG ATATTCTTCT GGATGTTCCA TTGCATCTAT	180
15	TAATGTTTCA CGGTTAAATA CGTTAATATT TAAGTGGTGA CCACATTGCA TTGCGTAACC	240
	ATCTAACATA CTAGTTAAGT ACGGTTTGAT CTCTGGnTCT TTACCTAATG ATTTGGnACG	300
	ATACTGATGT ATTGAAATAC CATCCTTACA GCATCGTAAG GGGTCCTAGC CACAGAACTT	360
20	ATGAAGAAAT GCACCTTTTn GGCACnGGCA TGCATGGGGT	400
	(2) INFORMATION FOR SEQ ID NO: 2997:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2997:	
	ATGATATTAA CCTGTTTACA AGATGGTTGA TACTTGCGCA TGANATTTGA ATCTTCAACA	60
35	CCATATTATT ATGGTACATA CGAAACTGAA AATGAATCCA TAGTTACTGA CAAAGAAAAA	120
	ATCTTAGTAT TAGGCTCTGG ACCAATTCGA ATCGGCCAAG GTGTAGAATT TGACTATGCG	180
	ACAGTTCACG CCGTTTGGGC AATTCAAAAA GCAGGGTACG AGGCGATAAT TGTGAATAAC	240
40	AATCCAGANA CAGTITCAAC AGATTCTCAA TTTCTGACAA ATTATACTTT GAACCTTTAA	300
	CTGANGAGGA TGTGATGAAT ATCATTAATT TTGGA	335
45	(2) INFORMATION FOR SEQ ID NO: 2998:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(vi) SECTIENCE DESCRIPTION: SEC ID NO. 2998.	

	GCAGTAACTA ACTTTTGTAC AAAAGGATCA TTTTTATCAA CATAATGTGG TGGTTGGACT	120				
•	TTACCTAATT TCACTTCAAA GLATTGTTGA ATCTCATTTG CAAAACGATC CATAGCTTTT	180				
5	TCAAATTCAA ATCCTTCTGG GTAGCGTAAL TGATACCGAA AAGACCTGCG TTTTCATTAT	240				
	CATATGTAAT AACACCAATG TTAGTTGTCA CGTCACCCAT GGACATCTGT ATGGGAATTT	300				
10	CATTCCCANC TITTTCACCA AAATCNGGAA TIGAAATAAG TGAGCGATTA CGAAATGGCG	360				
10	ACAAACGCCT GTGGCATTGA THGAGCAAGA TTHAAGG	397				
	(2) INFORMATION FOR SEQ ID NO: 2999:					
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear					
20						
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2999:					
	AAAGCTGTGT TGGTAAAGAG TTTTGTCGAT TTGGTACGCA ATACACGACA CGACTTGGCA	60				
25	TTCGTTTAGA AAAAACATTT GAATACATCG ATACACCTCA TAAATTCAAA ATGGGTGTAT	120				
	CAGGCTGCCC AAGAAGTTGT GTTGAATCAG GTGTTAAAGA TTTTGGTATT ATCTCAGTTG	180				
30	AAAATGGGAT TCCAAATCTA TATCGGTGGT AATGGTGGTA CAGAAGTTGA AAAAGCTGAA	240				
	TTTTTAACAA CTGTAGAAAC AGAAGATGAA GTAATCAAAT TATGTGGTGC TTTGATGCAA	300				
	TATTGANCGC GAAACAGGTA TATATGCNGG AAAGAACCAG CGCCCAGGTT AAGAAGACCT	360				
35	GGATTTGAAA ATGTNAAAAG AAGTCCTTAC CTGGGCCCCG	400				
	(2) INFORMATION FOR SEQ ID NO: 3000:					
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 506 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear					
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3000:					
	AACGGTAGTA TTACAGAAAG CTCTACTTAT GGTGATAATG ATACACCAGC GCCACCAACT	60				
50	GACGAATTAG GTGGTAGTTG GACACTATGG AAAAATTTAG CGCGACAAAG TCCTGAATTT	120				
	GGTAATCCTG ATAAGTTTTG CCAAAATATT CCTAAAAAAA GTTGGTTTGT TTCAGCAACT	180				
	TCTACAACAA ACAATAAAGA GATTATCGAT ACAATAGAAA GTATTTGTAA ACGTGACCCA	240				

	AGTTTTACAA TCAATCGTCA GCMACAGTTT AAAGACCAAC CTGYAAATGA AATATCTACA	360					
	TGGATTTATG CCTTATATYC AGATGTAAAC GGCGATTATA TTAAAAAGCC AATTACAGAA	420					
5	TGTAGTGGTA ATGAAATATG CCAAGNATGG CTGTATCNCT TNGGTGTATC AACTGACAAG	480					
	ATTGAAGACT TAGCAAAACA TGCGTC	506					
10	(2) INFORMATION FOR SEQ ID NO: 3001:						
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 353 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear						
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3001:						
20	ATTGATGGCA TCGAAAAACT TTAATAAGAC AACAAGTTGA TGAGATATAT GTATATAGGT	60					
	TIGGCATGGA TITCGATTGC AGTTAATTAG AATAGCTCAA TGCTATAAAT GTAAGTAGTT	120					
	GATATGAAGA AACTAATGAA CTAAATGCAA GTATTGTCTA AAACAATCAT TTTATTGAAA	180					
25	TTTAGTAGAG CTGAAATTAA TATAACGTCG TTAATTGAAT AACGCTTATG TTATAAGAGC	240					
	ACTCATACCA nACCATAATC ATCTATAGNT ATAACAATTC ACGTATAAGG GGCTGTGTTT	300					
30	GGCATAGCCC TTAGGTATAC ACCTAATTCC CATTAAAATA GTAGGGGnTT AAA	353					
	(2) INFORMATION FOR SEQ ID NO: 3002:						
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear						
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3002:						
	CAACAAAATG TCTATATGGT AAGTGGTAAA ACGAAAAATG ATGAAGACTA TTCATCAACT	. 60					
	ATTTTATATA ACAACGAAAA AGAATTACAA AAAATTACTG ATGCTGCTAA AAAGCAAAAC	120					
45	GGTGTAAAAT TAACGATTAA AGAAGAAGAA AAACAAAGTG TCTTTGTGAG TATACTTTCA	180					
	ACATTAATTC CAGTTGTAGT CATAGCGTTA TTATTTCTTC TCTTCCTAAG CCAAGCACAA	240					
50	GGTGGCGGTA GTGGCGGTCG TATGATGAAC TTTGGTAAAT CTAAAGCAAA AATGTACGGT	300					
	GATNAATAAA CGTCGTGTTC GTTTCTCTGA TGTAGCCAGG GGCCAGATGn AGGAAAACCA	360					
	ACCOMPANT CONNECTE COPPETED ANDCOMES	400					

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3003:	
10	ATAACATCGG CACAGCAGCT AAAATAACCA TACCCAAAAT GANTGTATCT TTAAACGTGC	60
	ACCGTAAAGn CTTCCGACTA GCCATGTATA AGCTTTGGCA GCAGATAATT GCTTCGTTGT	120
15	AATGAGTAAT CCTTGGACAA GCGCAATAAA CAACGTTTGC ATCGAAATAC CGATGATTAT	180
	GAGTGTTGTC GGGCGTATTT GTCCTTTCGT TTGAAACACT AATAGTATCA TCATTGCAAC	240
	TGCGCCACCT AATACTGCAA ATAGTGGAGT AAATGTATTG TTAAAGGCTG AAAATGCAAT	300
20	AAAGACAACA GCACTTAAGC TAGCACCACC TGTGATACCG CTAATATCAG GTGAGGCCAA	360
	TGGnnTTTTT TTATACATTT TGGCAACATT TAACCACTTC	400
	(2) INFORMATION FOR SEQ ID NO: 3004:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3004:	
35	CTAATAACAA ATGCGATGAT GATTAATACT AATTTACCTG CTGCTAATAC AGAATCTCCA	60
00	AGGAATGAGA AGAATGGTTG ACGTTCAACT TCATTGTTTT TAAGACTGTA GATAATATCT	120
	TCTTTCTCTT CAACACTTAC TGGATTCAAC AAGCATGACA CAATAATCGC GTTAACGGAT	180
40	ATTTAGTGGA ATTGCCGTTA GTACCAGTTC TCCTGGTACC ATTTGTACAT ACGCACCTAC	240
	AATAGCTCCC GATACAGAGC TCCATTGACA TCATTGCGAT TGTTAATACA CGCATTTCAT	300
	ThCAGACGTT TTAGTTGCTC ACTTGGATAC GGGCTAANGC TTNCGTGAAT TGCC	354
45	(2) INFORMATION FOR SEQ ID NO: 3005:	
5 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

•	GTCAGCTTA	TTGAACAAGG	GACACGTGAA	TCAGTCTTGC	ATCATCCAGA	ACATGTTTAT	6
į	ACGAGATTTA	TTATCAACGA	AGAAGAAGAT	TAATGATCAT	TTTAAACATG	TGATGAGGGG	120
7	IGATGTACAT	GATTAAAATT	AAAGATGTTG	AAAAGTCATA	TCAAAGCGCA	CATGTTTTTA	180
I	AGCGTCGTCG	AACACCTATC	GTGAAAGGTG	TGTCATTTGA	GTGTCCAATC	GGTGCGACGA	240
7	TTGCGATTAT	CGGAGAAAGT	GGTACGGnTA	AATCGACGTT	TGAGTCCTAT	GATATTAGGT	300
Į	NTTGAGGAAC	CGGATAAAGG	TTGTGTACCC	TTAAATGATC	CACCGATGCn	TAAGAGGAAG	360
7	MAGCCGCCA	CCnATTGG					378

(2) INFORMATION FOR SEQ ID NO: 3006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1785 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3006:

	ACnTTAGTTG	GCCAAGCCTT	TATCCGGAAT	TATTGGGCCT	TAAAGCCCCC	TTAGGCGGTT	60
,	TTTTAAGTCT	GATGTGAAAg	CCCCGGCTCA	ACCGTGGAGG	GTCATTGGAA	ACTGGAAAAC	120
•	TTGAGTGCAG	AAGAGGAAAG	TGGAATTCCA	TGTGTAGCGG	TGAAATGCGC	AGAGATATGG	180
	AGGAACACCA	GTGGCGAAGG	CGACTTTCTG	GTCTGTAACT	GACGCTGATG	TGCGAAAGCG	240
•	TGGGGATCAA	ACAGGATTAG	ATACCCTGGT	AGTCCACGCC	GTAAACGATG	AGTGCTAAGT	300
1	GTTAGGGGGT	TTCCGCCCCT	TAGTGCTGCC	Antaacgcat	TAAGCACTCC	GCCTGGGGAG	360
•	TACGACCGCA	AGGTTGAAAC	TCAAAGGAAT	TGACGGGGAC	CCGCACAAGC	GGTGGAGCAT	420
,	GTGGTTTAAT	TCGAAGCAAC	GCGAAGAACC	TTACCAAATC	TTGACATCCT	TTGACAACTC	480
•	TAGAGATAGA	GCCCTTncTT	CGGGGGACAA	AGTGACAGGT	GGTGCATGGT	TGTCGTCAGC	540
•	TCGTGTCGTG	AGATGTTGGG	TTAAGTCCCG	CAACGAGCGC	AACCCTTAAG	CITAGTTGCC	600
i	ATCATTAAGT	TGGGCACTCT	AAGTTGACTG	CCGGTGACAA	ACCGGAGGAA	GGTGGGGATG	660
į	ACGTCAAATC	ATCATGCCCC	TTATGATTTG	GGCTACACAC	GTGCTACAAT	GGACAATACA	720
i	AAGGGCAGCG	AAACCGCGAG	GTCAAGCAAA	TCCCATAAAG	TTGTTCTCAG	TTCGGATTGT	780
4	AGTCTGCAAC	TCGACTACAT	GAAGCTGGAA	TCGCTAGTAA	TCGTAGATCA	GCATGCTACG	840
	GTGAATACGT	TCCCGGGTCT	TGTACACACC	GCCCGTCACA	CCACGAGAGT	TTGTAACACC	900
	CGAAGCCGGT	GGAGTAACCT	TTTAGGAGCT	AGCCGTCGAA	GGTGGGACAA	ATGATTGGGG	960

	TATATTCGGA	ACATCTTCTT	CAGAAGATGC	GGAATAACGT	GACATATTGT	ATTCAGTTTT	1080
	GAATGTTTAT	TTAACATTCA	AAAAAATGGG	CCTATAGCTC	AGCTGGTTAG	AGCGCACGCC	1140
6	TGATAAGCGT	GAGGTCGGTG	GTTCGAGTCC	ACTTAGGCCC	ACCATTATTT	GTACATTGAA	1200
	AACTAGATAA	GTAAGTAAAA	TATAGATTTT	ACCAAGCAAA	ACCGAGTGAA	TAAAGAGTTT	1260
	TAAATAAGCT	TGAATTCATA	AGAAATAATC	GCTAGTGTTC	GAAAGAACAC	TCACAAGATT	1320
10	AATAACGCGT	TTAAATCTTT	TTATAAAAGA	AAACGTTTAG	CAGACAATGA	GTTAAATTAT	1380
	TTTAAAGCAG	AGTTTACTTA	TGTAAATGAG	CATTTAAAAT	AATGAAAACG	AAGCCGTATG	1440
15	TGAGCGTTTG	ACTTATAA Gn	ATGnnnGATA	TGTTGAATAT	CCATATCTAA	AGCTAGATCT	1500
	AAACTTTGTT	CAAAATCTTC	AATCGTCTGT	TTCGGTAAAT	GATACATTAA	ATCTAAACTG	1560
	ATTGATTTAA	TACCTGCGTT	TTTAGCATTT	AACACCGAAG	TGTAAATATC	TTCAGTATTG	1620
20	TGCGTTCTAC	CTAAAACAGA	CAATAACTCC	GGCTTGAATG	TTTGAACGCC	CATTGAAATC	1680
	CTTTTTACTC	CATATTTCTC	TAATAGTTGG	ACTTTCTCTT	TAGTTAACTC	ATCAGGATTT	1740
	GCTTCAAATG	TATACTCGCC	TGTGATTGTA	AACGTATCAC	GTATT		1785
25	(2) INFORMA	TION FOR SE	O TD NO: 30	07:			

(2) INFORMATION FOR SEQ ID NO: 3007:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3007:

TGCAAAAAAC ACAATAACGA TAAATGTTCC CATTGATCCT ACAGCATCGC GAACATTTTA 60 CCTAAGTCTT TTGTATTTTT AATTTCTTTG CTTAAAATCC CATAAACTAA TCCAGGTACT 120 AAAAATACGA CAAGAATAAT TAATCCGACA CCGTTAATTA ATGGCGATCG TCTAGTAAGC 180 TGCCTGTTTT AGCATTTCTT AAAAAGCTAT GTCAGGAATG GCTGTAATAA TTAATAAAAT 240 AATTGIGCTA TGAACTGATA TTTGCCATTT TAAAANATGT GCTCTTTGTC AGAATATGTG 300 AGATGTNCTC ATGGCATCAT GCATTAAACT GCATCATATT TTCCTAATCT AGGATAATGA 360

(2) INFORMATION FOR SEQ ID NO: 3008:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3008:	
	TTGCCTTCAA ACACATACTT GTAGTCGGAT GATCACCTGT TCCAAAAGnC ATACCTGGGT	60
5	CGAGCTCAAT GCAAAGCTCT TCATCCGCTT CTTTAGCATA TGTTTCCCAA CTAGGAACTA	120
	TTGTGAACTT CTTCGACGCT CGGGAATGGA TGGAAATAGT TTTTCCATTC ATTTTCCCAA	180
	TCCGTCTCTG CAATAATTTG CTCACTGAAT TGAACGTTAT GTTGATCAAG TTCATCTAAA	240
10	TTTAATAACT CATCTTTGAA TTTGCTGTCG CAACTGTATC ATCATAAGTG CATTTCAGTA	300
	AAATAGGCTT nGCAAnCTTA CTCCCTTATC TGGGATAAAG CCTCGGTTTT	350
15	(2) INFORMATION FOR SEQ ID NO: 3009:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEOUENCE DESCRIPTION: SEO ID NO: 3009:	
25 :	TCTTATATCA CCAGGAATTA ACACTGCCTT TTGACCACTT TCTTCAATCA CTTGGCGTAC	60
	TTCTTGTGCA TCTTGTTCTT CACTCGGAAG ATAGTTAATC GCTACATCTG CACCTTCTTT	. 120
	AGCATACGCA ATTGCTGCTG CACGCCCTAT TGCTGAGTCA CCACCTGTGA CTAALATTTT	180
30	ATAGCCTTGT AAGCGTTGAT GACCTTGGTA AGACGTTTCG CCACAATCGG GTGCTGGCGT	240
	CATTICAGAT TGTAAACCCG GTACCTCTTG TTCTTGTTTT TCATAATCCG TTGTTTTAAA	300
	TTTTGTTCnA GGaTCTkGAG CkGCCAtTTT TtGACAyCtC CGTATnCGCT TAATGGGTAT	360
35	CATTTACCCC AATCTTCCTA AGG	383
	(2) INFORMATION FOR SEQ ID NO: 3010:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3010:	
	TAATTCAACG GGAATTTTCC CTTTGAAGTT AACATAACGG TAGGCTGCTT TAACAGCTTC	60
50	ATCATCGGGC GCTTCGACAT CTTCTAATTC ATATGCAATG CCCAATGTTT TCCACTTATG	120
	AACACCTAAC TGATGATATG GCAGAATTTC AAACTTTTCG ACGTTATCAA GAGAATTAAT	180

	TGTCGAATCC ATACCAGGTG GTTTCATATC TGACAGTTTG CGCGCGAAGT TAAAGGATGT	300
	GTGTATTAGG GCTTTCCCGG TCCATCCAAA TANGGTTGGT CCATTAATCC ATAAGGTTTT	360
5	Anaatchaaa taataatcca gtccggta	388
	(2) INFORMATION FOR SEQ ID NO: 3011:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3011:	
	ACTGCTGTAA CGTCAGTTGA TCTTTTCATT CTTGGTTTAA TTTCTGAGAC GTTACTTGGT	60
20	TGnGCnAnGC CACCAATTGC CATACCGACA GATTGGAAGA ACAATGCATC AGTTCCACCA	120
	ACACCAAAGA TGTCACCAAG TACAACGAAA CCTACATATC CAACTGTAGA TACAATTAAA	180
	ATACCCATTG CTTTTTTAAA TTCAGGATTA TCTGATTGAC GTnCATTTTT AGCTTTAAGT	240
25	GAAGTAAGTG CTACACCAGT AACTAATAAT ATCATGGCGA TTAAACCAAA GATAATTTGA	300
	GTCATTGAAG ACCATTCACC TAAAAAGATA ACGCTGGAAT AATGGTGTAC CCAACTAATT	360
	GGCATACCTG GTAGGAAACT GGGCATAGGT ATTTGGATAC	400
30	(2) INFORMATION FOR SEQ ID NO: 3012:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3012:	
	TTATCGGATT CGTTAATACT GGCGGTTTAC GCAATAGTTT AGATGTAGAT GATAACAATG	60
	TGCCTATTAA ATTTAAAGAA GAGTTCGAAC CTAGAAAGTT TGTTTTCACT AACGGCGAAA	120
45	TTAAATACAA TAGCAATTTC GAAAAAGAAG ACGTACCGAA TGCATCAAAC CAACAAAGTG	180
	CGTCAGATTT AAGTGATGAG GAACTTCGCG GAATGGTTGC GAGTATGCAA ATGCAGGTGG	240
	CACAGTAAAC GTATTAACAA TGGGATTAGC TCAACCAAAC GCTATGTTAA CACCACAGTT	300
50	GACTGACTGG AAACTACCAA ACCAGTACTG AGGGGNCGTT AATAATGAGT GTITCCACTT	360
	አእርርአመአአአር ምምምርምምርም ርቸዋልልልሮርርር እምዋልርጥርምር	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3013:	
10	GGCTGTAATG AAAATCCAAA AGCCAAGCTT ATTTAATTCG CCTTCATGTG TGCGTGAATC	60
	ARTAGTGTTT GTATCATGAC TCATGACTTA CAGCCTCCCT TTCTTTAATA CGCGCTTCTC	120
15	TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGGAT ATGATATCCG TGATCGATTT	180
	GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA	240
	CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA	300
20	CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGnAATAA TGGGTTGnCC TAAGTAATGG	360
	CCGACCAAGG TCCTTTCCAn ATCCACCAA	389
	(2) INFORMATION FOR SEQ ID NO: 3014:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014:	
35	AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT. CAAGCTGAGC	60
	TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG	120
	ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA	180
40	TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT	240
	TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG	300
	CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT	360
45	GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3015:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3015:	
	ncctatetet ggtcgagagt etttgagetg aaaaatgtga cacacaaaat tgcaatggna	60
5	TCAACAAATG TTTCCCATTG TGGATGGTCT TGACTAAGTA TTTGGTGTTC AACTTGGTGA	120
	TTTGCCATGA CTAATACCAT GTCATTTGTA CTTGTATCGC CATCAACAGT AATCATATTA	180
	AATGTATGGT CAGTCGAAGA TTTTAATAAT TGATGAAGTG TATTCGATTC AATCGATGCA	240
10	TCGGTTGTTA TAAAAGCAAG CATGGTAGCC ATATTTGGGT GAATCATACC TGAACCTTTG	300
,	GTGCTACCAC CAATTGTAAC GGTTTACCAT CGATTTTAGT GATACAGCGA TATGTTTTGT	360
15	ACAGGTATCA GTGTTAAAA	379
13	(2) INFORMATION FOR SEQ ID NO: 3016:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3016:	
	CATATAAATT GCTAACGTGC CACCATTCAC TAAGGAATTG ACATCCACTT CATTTTCTTC	60
	TGAATCTTTA AAGTGACCTG TAGAAAATGT CACACTTTTA GCAACTGTAC GCATTGTCAA	120
30	ACCTGTCTGC ATAGTAGCAA CTGCTGCGCT CGCTGATGTC ACCCCTGGTA CAATTTCAAA	180
	CGCAATATGA TGTTCATTTA GTATGTCGAC TTCTTCTTGC ACACGACCAA ATATCGCTGG	240
	ATCGCCAACT TTAAGTCTAA CAACCTTGTT ATATCGACGC GTGCTTCCAC GATACAGTCA	300
35	TTATTTTTCT GGCGGAAAAT GTTTGGAAAC GGCTTTTACC AACAMGGTAA TTCAGAGGCA	360
	ATCGCAATGn AAATTACGGn TCACnAACGG TCATTGGATG	400
10	(2) INFORMATION FOR SEQ ID NO: 3017:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3017:	
50	CCTTTTCTC TTCTTTCATA TCTGCAAACG TGCATCAATT TTAGGATCTA AATCTCCAAA	60
	TGCTTCTGCA ACTGGTTCAG AGCGTTCATA ATACATACGA ACTTTTGGAT ATAACGCTTT	120

	TCATTTAACT GTTCATCAGT ATATTTATCA TATGCTTTTG TTGCTTGTTT TAATTCTGCT	240
	TTAACACCAT CATCTTTTTT CGATGTCTTT GAATCATCCT TCTTACTATC GTCGTTCCCC	300
5	ACATGCAGCA	310
	(2) INFORMATION FOR SBQ ID NO: 3018:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3018:	
	TCGCTTTGTA AATTCTGGAA CAAAGnCAGT CATGACAACA ATTCGTGTTG CACGTGCATA	60
20	TACTAAAAGA AATAAAATTA TAAAATTTGC TGGATCTTAT CATGGCCATT CTGATTTAGT	120
	ATTGGTTGCA GCAGGTAGCG GCCCATCTCA GCTCGGTTCT CCAGACTCAG CTGGTGTTCC	180
	AGAAAGCGTC GCACGTGGAA GTCATTACTG TACCTTTCAA TGATATTAAC GCCTATAAAG	240
25	AAGCAATTGG AATTTTGGGG TGATGAAATT GCCGCAGTAT TAGTAGAACC AATTGTTGGT	300
	GAACTTTGGG AATGGnnAAT GCCTCAACCT GGGATTTTTA GGAAGAGGGT	350
30	(2) INFORMATION FOR SEQ ID NO: 3019: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3019:	
40	ATATCATGTG CCAGTGAAAG CGGCACTGGn CGGATATGGC GCACATATGG ACATTATGAA	60
	AGAGTACCAA TTAATCATTT TAGCGCCACA AGTTGCGTCT AACTATGAAG ATATTAAGCA	120
	AGATACAGAT AGATTAGGTA TTAAATTAGC GALGACTCAA GGTGCTGAAT ATATCAAATT	180
45	GACACGEGAT GGCCAAGCAG CCCTTGATTT CGTTCAACAA CAATTTGAAA ATTAAGAATA	240
	GGAGTTTTTC ATATGACTAA AACATTACCT GAAGGATTTT ATTTTTGGTG GAGCAACAGC	300
	AGCATATCAA GCAGGAAGGT GCGACCAAAT TACGGGATGG GTTAAAGGTC GCGTGCATTG	360
50	GGGATACGGT ATTTTAGGAA GGAAAACTTA TTTGGTACCA	400
	(2) INFORMATION FOR SEQ ID NO: 3020:	

δ	(A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3020:	
10	ACGTTCGTCT TACGTTTAAC GCCATACGGT GTATTAGCAA TTATGGTCCA ACACATTATC	60
	GACAAGTGAC TTTGGCGCCA TTTGGACTTT AGGAAAAATT CTTAATCGCA TCGTACGCTG	120
	CATTAATTAC GATGTATATC ATTCACTTAA TTATTTTAAG CCTGTTAGGT ATTAGCCCAA	180
15	TTCGCTATGT TAAAAAGACT TTGGAAGTAT TAATCTTTGC ATTCACATCA CGCTCAAGCG	240
	CGGGTGCCTT ACCAATGAAT GTACCAACAC CAACCAGACG TCTAGGCGTG CCAGAAGGTA	300
	ATGnCAATTT CGCTGCGACA TTTGGAATGG CGATTGGACC AAATGGGTGG GCAAGnAATT	360
20	A .	361
	(2) INFORMATION FOR SEQ ID NO: 3021:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3021:	
	CAATGACCAT GACCAGTTGA TTTGGAACAA TGATTGACAT TGGAGCTATG CATCAAGTTT	60
35	GTCTTTAAGA CTACTAAACC CACGAACCAT GTTAACCCCG TGGTGCACCA TCACCAATTG	120
	nCTCGATCTA ATTCAGTTAA TTCAGATTCA TGTTTTTTAA ACGTTTCTTC TAAATTTAAT	180
	AAACGTGnCT TTCATATCAT TCACTTTCAT TTGTGnCCAC CTCATAAATG TATATTATCA	240
40	TATTCACTCT TATTAAAGTA TGACTGTTGT TGGTGCTAAA AATGCTCCAA ATATTCGGTT	300
	TATTAGGCAC GATAGTTATA GAAAAACCTG ACAGTCTAAA GATGTCATAT AATCAC	356
45	(2) INFORMATION FOR SEQ ID NO: 3022:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3022:	

	GTGTTTGGTC CAATATCCAT ACCTTCTTGG nTCTGCTGGA ATTGAATCAG ATGGTACTAC	120
	AGTGATTTTG GCATCATTAG DAAAATTCTT TAGTCAACTT TAGTGTCTAC TGGTAATACA	180
5	ATTITATCAC CATGITITIC TAATAAATCI TITGCGAGIC GGATTITATC TICTICTAAT	240
	AATGAAATAC CAATTTCTTT ACCTTGCGCT TTTAAGAAAG TATAAGCCAT ACCTCCGCCG	300
	ATGATAATTT TATCAGCTAT GTTAACTAAT AA	332
10	(2) INFORMATION FOR SBQ ID NO: 3023:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3023:	
	AAAGGTATTC CACAAGAATT AGCTTTGCAA AAATGCCAAA GCAAACAGAA GATGGNACAA	60
	TTTAAAGTGn CCTACAATCA TGAATGAGGA GGACGCGTAA GATGAGCATT CGCTACGAAT	120
25	CGGTTGAGAA TTTATTAACT TTAATAAAAG ACAAAAAAAT CAAACCATCT GATGTTGTTA	180
	AAGATATATA TGATGCAATT GAAGAGACTG ATCCAACAAT TAAGTCTTTC TAGCGCTGGA	240
	TAAAGANAAT GCAATCAAAA AAGCGCAAGA ATTGGATGAA TTACAGGCAA AAGATCAAAT	300
30	GGATGGCCAA T	311
	(2) INFORMATION FOR SEQ ID NO: 3024:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3024:	
	ATTAGACATT ACAAGGTGCA GTACGTGCAA CATATTAGAC ATATTGAATT AAGTGGTCAT	60
45	GDAAGGTATT GACAGTTAAA AAAGTTGAAC AATTAGAAGA AATCGAGGGC TTAATATTAC	120
	CTGGTGGCGA GTCTACAACG TTACGTCGAT TAATGAATTT ATATGGATTT AAAGAGGCTT	180
60	TACAAAATTC AACTTTACCT ATGTTTGGTA CATGCGCAGA TTAATAGTTC TAGCGCAAGA	240
50	TATAGTTGGT GAAGAAGGAT ACCTTAACAA GTTGAATATT ACTGTACAAC GAAACTCATT	300
	CGGTAGACAA GTTGACAGC	319

(i) SEQUENCE CHARACTERISTICS:

55

5	(A) LENGTH: 320 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3025:	
	GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
	GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
15	TGTAATTGTT TGTGTTTACG TATTTCTGGT GGTAAGTTCC GTGAAACCCA ATGTCTATAT	180
	TCCCATTTAA TACGCTATTT ATAAnTGTGT CATGTTCTAA TAAGCTCGGT ATGACATGTG	240
	TATCATTTTG TAAAATGAAC GTTTGGATAA GnGGGAGTAA CATGTGGGAT ACGTCACTCT	300
20	CATCAAGCCA TGTAGATACn	320
	(2) INFORMATION FOR SEQ ID NO: 3026:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	e Sac	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3026:	
	TCTCAACAAA TGCATCCAGT ACTTAAATTG GCATTATAGT AATTTAAGnA CAATATATCA	60
35	ATATTTCTCC TTATCCAGCA ACAGCAAATT TATTGGTAAG GTGTACGATT GAACCTTTAG	120
•	TCAATGAAGC AGGTACATTT GGATTGGCCA GGTGGATTTA CTTCAACTGA GCGCTTTGTG	180
	AGAATGGGCA TTTATGAAAG CAAACATTGC TCAAAACAAT GATAAAGAAA TGGATTTAAT	240
40	GAATGCATTT TATTTATTAG ATGCGGTAAA TATACCGATT GGAATTGTAC GTCCGCATGA	300
	TGCTGACAAT CACTATACGA TGTATCCA	328
	(2) INFORMATION FOR SEQ ID NO: 3027:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3027:	

	ATTGAAAATA TGTGTTCTnT GTAAAATTTT AATCGTTCGC CACGATGCTG TTGATAAAAA	120
	TTCAAAAACT GGAGTTGATC TTCTAGTTCA ACATAATCAT CGTAATTAGA CATGTAACCT	180
5	TTGATTAAGA TTTCAAGTAC ATGATCTTCG ATAGTATTGn TTTTAACTTG TTGTTGAGCC	240
	GCTATATCTT CCATCGTGGA ATTGTTCAAG CAATTTTGTA TAAGTAATAT AAGTTCGATT	300
10	TAATGAATGT AGGTTTCATT AT	322
10	(2) INFORMATION FOR SEQ ID NO: 3028:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3028:	
	CAAGAATCTT ATACTTATCA AAATTTATAC TGTGAAGCGA GTCTATTGGC TAAAAGACTC	60
	AAGGCTTATC AACAATCTCG TGTTGGGCTA TACATAGATA ATTCGATTCA ATCGATCATT	120
25	TTAATACATG CATGTTGGTT GGCAAATATT GAAATTGCGA TGATTAATAC AAGGNTGACA	180
	CCTAATGAGA TGACGAATCA GATGAAGTCA ATCGATGTAC AATTGATTTT CTGTACCTTG	240
	CCACTGGAAT TACGAGGGTT TCAAATTGTA TCGCTGGATG ATATTGAATT CGCCChCCGG	300
30	GCnTATTACA ACG	313
	(2) INFORMATION FOR SEQ ID NO: 3029:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3029:	
	CTTCCAAAGA AAAGACCACA GTTTTTGACG CATCAATATG GTGCAATTTT AGAGACACTG	- 60
45	TAGTTGCAGA AGATGGTTCA GTTGGACTTT GAAGACAATC GTTATACAGA AACACGCGTG	120
	CCGCTTATCC AATTAATCAC ATTGACAATA TTGTAGTACC ATCTAAAGCA GCACATCCAA	180
50	ATACAATTAT TITCTTAACT GCGGATGCAT TTGGTGTTAT TCCACCGATT TCAAAGTTAA	240
50	ATAAGACCAG CAATGTATCA TTTCTTGAGT GGTTCACTTC TAAATAGCTG GnCAGAGCGT	300
	GGTGTGACAG ACCTGACCAT CATCTCAACA TGTTCGnGCA CCGTCTTCCG TACATCNACT	360
	•	

(2) INFORMATION FOR SEQ ID NO: 3030:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3030:	
	TGATGGATTG GCTAGCAGGT GTTTACATTA ACTCATTAAA TGTTATTCAC TACATGCACG	60
	ATAAATACAG CTATGAACGT ATTGAAATGG CATTACATGA TACAGAAATT GTACGTACAA	120
15		
	TGGCAACAGG TATCGCTGGT TTATCAGTAG CAGCTGACTC ATTATCTGCA ATTAAATATG	180
	CACAAGTTAA ACCAATTCGT AACGANGAAG GTCTTGTAGT AGACTTTGAN ATCGAGGCGA	240
20	CTTCCCTAAA TACGGTAACA ATGACGACCG TGTAGATGAT ATTGCAGTTG ATTTAGTAGA	300
	CGCTTCATGA CTAATTACGT GGTCATTAAA CATATCGTGA TTCAGACCTT CCATGGGNGT	360
25	ATTACCATTA CTTCAACGTG GTnTCGGGTA GAAACTGGGT	400
25	(2) INFORMATION FOR SEQ ID NO: 3031:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3031:	
	NGCGTTTAAT CACATCTTTT TGATAATGTT CCCTTACCAT TTCTTCATGT GCATCTGCAT	60
	AGTCTTTTCC AAATGGCAAA CTAAACTGAT ATGCAACTTT TAAATAGGCA TCTATATGCG	120
40	ACTCGTCAAC GATGGCAATT TCAACGTCMA GTTACGCGGA CAAATTGGCA AGCGCATCAC	180
	TTTCTATGGC ATACAATTCC ATAATACCTA GTTCAAAATT CATATCTTTA AAACATAGCC	240
	ATCCAATGGA TTATCAAGTT GTTCATTTTC CGGGAAAACT NAAACGCATA AATGATTTGG	300
45	AACCTTGATT TGTATGTGA	319
	(2) INFORMATION FOR SEQ ID NO: 3032:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3032:	
	AAGAAGTGGC AATTATGATT GATGCTCTAG CTGACAAAGG GAAAAAAGCA TTAGAAGCAT	60
5	TATCTAAAAA GTCACAAGAA GAAATTGATC ATATTGTTCA TCAAATGAGC TTAGCAGCTG	120
	TTGATCAACA TATGGTGCTA GCAAAATTAG CACATGAAGA AACTGGAAGA GGTATATACG	180
10	AAGATAAAGC GATTAAAAAT TTATACGCTT CTGAATATAT ATGGAATTCA ATAAAAGACA	240
,,,	ATAAGACAGT AGGGATTATT GGTGAAGATA AAGAAAAAGG ATTAACGTAT GTAGCGGAAC	300
	CAATTGGTGT TATTTGTGGT GTTACCGCCC AACCACCAAA TCCCTACGTC CGACCACCTA	360
15	TTTTTAAAGC CGATGGATTT GCCATTTAAG ACNGGGAATC	400
	(2) INFORMATION FOR SEQ ID NO: 3033:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3033:	
	TAGCGGTAAT CGAAATTGGG GACTAAATTT CGCAAAAGCG GGTCGCACGA TATCAGAAGA	60
	GTATAATGTC CCTTTATTAA TGAAGTTTGA GTTACATGGA AAAAACAAAG ACGTTATTGA	120
<i>30</i>	ATTTAAGAAC AAGGTGGGTA ATTTTAATGA AAACCATGGA AGAGAAAAAG TACAATCATA	180
	TTGAATTAAA TAATGAGGTC ACTAAACGAG AGAAGATGGA TTCTTTAGTT TAGAAAANGA	240
35	CCnGAGCTTT AGTAGCTTAT TTAGAGGAGT AAANGACAAA ACATCTTCTT CGACACTGAA	300
	TCG	303
	(2) INFORMATION FOR SEQ ID NO: 3034:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3034:	
	CTRCGCTATT TTGTAGGACA TCTTCTAAAG TGCTAGGRGA AGAGATTATA GAATAGGCAC	60
50	TATCAATACC GAAATCGTAA ACATGTTGAT AATTTTCGCC TAGACTGCCA CAAATCGCGA	120
	TGACAGGAAT ATGATATTGT TTTGCAGCTA ACGCAACGCC TGACGGGTGT TTTACCAAAG	180

	TGATGAAAAT CIGTAATGTC AAAGACGGAC ATCAATGACT TTTGTTGAAA GTTGTCTCAC	300
	AAAACGnTAA TGAATGCTGC GGCCCATGAC CGGCCAGCTG	340
6	(2) INFORMATION FOR SEQ ID NO: 3035:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3035:	
	AAAGAACATG GTGTAGCAAT AGTCTCTGGA GGTGGAAGCG GACATGAACC TGCGCATGCC	60
	GGTTTTGTTG CAGAAGGTAT GCTAGATGCA GCGGTTTGTG GCGAGTATTT ACATCACCTA	120
20	CACCTGATAA AATATTAGAA GCTATTAAAG CAGTAGATAC TGGTGATGGT GTATTACTAG	180
	TTGTAAAAAA CTATGCAGGT GACGTGATGA ATTTCGAAAT GGCACAAGAG CTTCCAGAAA	240
	TGGAAGGTAT AAATGTTCAA ACTGTTATTG TTCGTGnCGn CATTGCTGTG ACAAACGnGT	300
25	ACA	303
	(2) INFORMATION FOR SEQ ID NO: 3036:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3036:	
	GGGGAAAGTA AATTAACAGC TGTGTAGAAT AATTAAGGTT TTAATTTATA TAGAACAACT	60
40	TATTGTAAAC TTTTCATTTC TTAAAGTTTA CAATGGTGCT ATAATAATGG TCATGAAATA	120
	CGAAAGGAAG GAAAAAATGA ChACAAAACA GTTAGTATAT ACAGCTTTAA TGACAGCGAT	180
	TATCGCTAGT TTANGATTGG TACCGGTAAT TCCACTACCA TTGnCTTCAG TACCAATTGT	240
45	ACTTCAAAAC AGTGGTATTT CTTAGCAGGG GCGATTTTAG GACGTAAATA TGGCACATTA	300
	AGTGTTATCG TCTTT	315
50	(2) INFORMATION FOR SEQ ID NO: 3037:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 330 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3037:	
5	GCACCAATTG ACGAAGGAAT ACCGAATCCC ATTGTTCCTA AACCACCGCT TGTAACCCAT	60
	TGTCCGTGAT TTTTAAATGG ATAAAATTGA GCTGCCCACA TTTGATGTTG TCCCACGTCT	120
10	GTAGTAACAA TTGCTTCACC ATTTGTAATT TTGCCGATAT ATTCGATTGT TTGTTGTGGC	180
	TTACAAAATA CTTGATCTTC TTCACCAAGT TTAAATGGGT GTTTCTGCTT ATTATTTTGA	240
	CAATGTTTAA CCCAGTCACT GTGTTCTATA GTCTCAACAT TTTTATCATT TAAACCNTCC	300
	AAAAAACCTT TACAnGCCng CAAAAAAACC	330
15	(2) INFORMATION FOR SEQ ID NO: 3038:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3038:	
	GTGAGTCCAC ATAATAACTT TGACGTCCTG TTAATGTTCT AAAAGGTACT AGACGTTCTA	60
<i>30</i>	TATTCGTTGT AAATGGTGAA TATCGTCGAC CTTGTTTATT TGAACCTGGG AATACTGCTG	120
	TCGGTATTAC TTCTCGTGGT TGTGAAGTTA TATTTAAAAA CGAAATTTTC TCAGCAGCGC	180
	TGTCGCTAGA AATATCTTTT AACGGCATTC CAGTTTGTTC TTCGAGATCT TCATATGGAT	240
	TTTTGTGnAT AATTNACCAT TCGTAGCAGA TGGAAATACT TGAGTATNGG CATCAGCGAC	300
35	ATTGACGTGC TGTATCAATA CGTGGACGAT TCGC	334
40	(2) INFORMATION FOR SEQ ID NO: 3039: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3039:	
	GGTCTGATCG TGGTGAATGA AAAAGGTTCT TCTCTGTAAT GAATTATCTC TTACCGATGC	60
50	AAGATATTAT GAGCATGCAT TGCTCAGCAA ACGTTGGTGA AAAAGGCGAT GTTGCATTAT	120
	TCTTTGGTCT ATCTGGCACT GGTAAAACAA CCTTTATCGG CTGACCCACA CCGTAAACTA	180

	ATGCAAAAGC AATTAATCTT TCCAAAGAAX AAGANCCACA GNTTTTTGGA CGCATTCAAA	300
	TATGGTGCAn TTTTAGAGAA CACTGTA	327
5	(2) INFORMATION FOR SEQ ID NO: 3040:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3040:	
15	GTGATATTCA CGANCGTTAT TTTCAATATT TGATAAGTAG AAANTATGAC GATCTTCATG	60
	AACAGCATCT TGTTCTTCGT CAAATTCAAC GTCATCAAAA CGTTTGAAGA ATGTTTCATA	120
20	TGCATCAACA GATACTTCAG TACGGTTATT TAATAATGCT TTATGTGCAG CTTGGATCTA	180
	AATGATCTTT GTAGCCTTCA ACTHAATGTC GCACTATAAA ATTCACCAAC TGAACCTGAG	240
	CCATAACTGA ATAAACCGAT TGTTTCCACC AGCTTGTGAA TCTCGATTTT CAAGTGAATG	300
25	ATATT	305
	(2) INFORMATION FOR SEQ ID NO: 3041:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3041:	-
	GTTGTGTACC TTAAATGATC AACCGATGCA TAAGAAGAAA GTGAGACGTC ATCAAATTGG TGCTGTATTT CAAGATTATA CGTCATCATT ACATCCATTT CAGACTGTTA GAGAAATCTT	60 120
40	ATTTGAAGTG ATGTGTCAAT GTGATGGACA ACCTAAAGAA GTTATGGGAA GTCCAAGCAA	180
	TTACATTGTT GGAAGAGTC GGTCTATCTA AGGCATACAT GGATAAATAT CCTAATATGT	240
45	TATCAGGTGG AGAGGCGCAA CGTGnTGCAT nTGCGCGTGC AATATGTATT GAACCCNGAA	300
	ATATATTTTG TTTGGAT	317
	(2) INFORMATION FOR SEQ ID NO: 3042:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3042:	
5	AATCTTCGAA AAATAATGCA ATGCAGATTC CGAAAAAAAC AATATGATAG AAACACCTCA	60
	ATTAAATACA ACGGCTAATG ATACATCTGA TATTAGTGCA AACACAAACA GTGCGAATGT	120
	AGATAGCACA ACAAAACCAA TGTCTACACA AACGAGCAAT ACCACTACAA CAGAGCCAGC	180
10	TTCAACAAT GAAACACCTC AACCGACGGC nATTAAAAAT CAAGCAACTG CTGCAAAAAT	240
	GCAAGTTCAA ACTGTTCCTC AAGAAGCNAT TCTCAAGTAG GTTATTAAAA CACGGATGGT	300
	GCTAATAGCT THECAACAAC GTEGGETTTA AAATTCTCCA ACTTTAGTTT T	351
15	(2) INFORMATION FOR SEQ ID NO: 3043:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3043:	
25	ACGNCCTTAC TGGNTACTTG GTTGATAAGT GTTAATCCAA ATGACGTCCT GCTACGTACA	60
	GCTTTACGAA TATTTAATGC ACGTGTGATA TTTTGAGAAA ATACACCGCC TGGCTAAACC	120
30	ATACTCAGAA TCATTAGCTA TATCAATTGC TTCTTGATCG TCCTTCACTT TAATCACTGT	180
	TAACACTGGT CCAAATATTT CTTCTTGTGC TAATTTGTGA TGATTGTCTG GCACnCAATT	240
	AATGTCGGCT CAAAGAAGAA CCCTTTATCT AATCCATTTT CAGTTAAGCG ATGACCGCCT	300
35	GCTAAAATTT GTGCATCCG	319
	(2) INFORMATION FOR SEQ ID NO: 3044:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3044:	
	GTCATATAAT CTAACATTTG TGTTATCTGT TAATTAACTG GnTTTTACCT TAATTTGTTA	60
50	CATIGNICIG TATTAAAICI TITTGTAACC ATTGGTTACT TITTCAGGTG GAATTICAAC	120
	ACCCATGTCA CCACGTGnCA ACCATTAAAC CATCAGACAC TTCAAGAATT TCCGCAATAT	180

	AAATTCACGA ATTTCTAAAA CATCACTAGG TACGACGTAC GAAACTTGCT GCAATGAAGT	300
	CAACATTTC TTTAATACCG AAACGGATAT CTTCAGCATC TT	342
5	(2) INFORMATION FOR SEQ ID NO: 3045:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3045:	
	TAATATCATG TTGTGCTTTT AGTGCTTCGG CAATTTGTTT TGTACTTACT GACCCAAACA	60
	ATTTACCACC TTCACCAGTT TTTGCTGATA CTTCAACTTC AATGTTTGAT AACGTTTCTT	120
20	TTAATGCTTT ACATCTTCAA TITCTTGTTG GCGTTCTTGT TTTGCACGTT TTTTCTGTAA	180
	CTCTAATTGT TTAAGGTTAC CTGGTGTTGC TTCTACAGCA TAATTCTTTT TCAATAAGAA	240
	GTTATTTGGC ATAACCTACT GGTACTTCTT TAACTTCACC TTTTTTACCT TTACCTTTAC	300
25	CTTTAACANC TGTGTAAAAA TTACTTTCAT GCAGNTCACT CCTACTTAAA TGTTCCGTAA	360
	TGCCTGTTGT AATGTGCCAA CGCCnCTCGA CGTGACACCT	400
30 35	(2) INFORMATION FOR SEQ ID NO: 3046: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3046:	
40	AATCACTGTT TCATTACTTG TTCCAAATCT GNATTCAAAC TATTGTTCAA AGATTCTAAT	60
	TCCGCTTTAT TTTTATCTTT AATCGCTTTT GTCATCGCAG CATCTTTAGn CATCGACTTn	120
45	CTGTTGCAAT AGTTTAATTT TAGAACCCGC ATCTTTACTA GCCAATTTCT CTTCATAAGC	180
45	AATTAATGAC TTCGTTAATT GCGAAAGTGT ATCTTTTGA TTATCATTCG CTTTTGCATC	240
	TTCAAGCTTT CTCACATCTG CATTTGACAG CATTACTTGC ACTATTATCT TCAAGCGATA	300
50	ATTTCT	306
	(2) INFORMATION FOR SEQ ID NO: 3047:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3047:	
	ATGGATCATA TTAGCACGTA AAAGAAAATT CTGTTCATTA TGAAGAAGTG CCAGANGTTG	6
10	AATTTAAACG CACATATGTA TGTGAAGATA TGTCTAAATG TATTTGTTTA TACAACGCAC	120
	CTGATGAAGA AGCGGTAnTC GCGCGCGCAA AGCAGTTGAT ACACCGATTG ATGGCATCGA	180
	AAAACTTTAA TAAGACAACA AGTTGATGAG ATATATGTAT ATAGGTTTGG CATGGATTTC	240
15	GATTGCANTT ATTAGAATAG CTCAATGCTA TAAATGTAAG TAGTTGATAT TGAGGAACTA	300
	ATGAAC	306
	(2) INFORMATION FOR SEQ ID NO: 3048:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3048:	
30	GACAGGCTAC GAGATATTTT AAACAAATTT ACATCAAATC CAGTATTAGG TGTTATTGCA	60
	GGTATCGTTG TAACTATTTT AATACAAAGT AGTTCAGGTA CGACATTATC ACAATCGGAC	120
	TGGTAACnCT GGATTTATGA CATTGAAACA AGCCATTGGA GTGATAATGG GTGCTAATAT	180
35	CGGAACANCG GTAACTGCAT TTATTATCGG TATAGATTTA GGCGAATATG CAATGCCAAT	240
	TTTAGCATTA GGTGCATTCT TGAATCTTTT TCTTTAAACG CTCTAAA	287
40	(2) INFORMATION FOR SEQ ID NO: 3049: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3049:	
50	CATATAAATA GCGnTACATC GCGCCATTCT TGATCTGNAC ATATCTTTCT TAGGTCCAAC	. 60
	CGTGAATGAT TACGTCCATG ATAACGTACA AACGCAATTT CATTTGTGAT TCGATTGACT	120
	AAAGGTACAC TGCCATCTTT CACTTGTGGT TCATCAACTA CTGCATGAAT GATTTGATGT	180
55		

	AATTCTACAC ACATTGGAAA GCTTGTAATG CTGTCTTACA TACAAATATA TTGATATTTG	300
	TGCATGCAGT CAACCAGGCG GAAATGACCA TACCATGCTA ATTTTCTGGT ANGAAGGCCT	360
5	ACATATCTAA A	371
	(2) INFORMATION FOR SEQ ID NO: 3050:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3050:	
	CGCCAAATAA AGATAATACA CGTATTGGTG AAGATATAAC TGTAACTGCA CATATCTTAA	60
20	TTGATGGCGA AACAACGCCG ATTACGAAAA CAGCAACATA TAAAGTAGTA AGAACTGTAC	120
	CGAAACATGT CTTTGAAACA GCCAGAGGTG TTTTATACCC AGGTGTTTCA GATATGTATG	180
	ATGCGAAACA nTATGTTAGG CCAGTAAATA ATTCTTGTCG ACANATGCGC AACATTGAAT	240
25	TTCCAATTTG TTGGANCATA TGGGCTAACA AGGTGTTTAG GCATATCTAC TCGTCTTATT	300
	GGGTGCATAT GTAATGGCAA GCA	323
30	(2) INFORMATION FOR SEQ ID NO: 3051:	
••	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with applying programmer), and the world	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3051: CCGnACCAAT CGGTTTACAG TTCATTGGTA AACCATTCGC ATGAAAAAAC GTTATATCGT	
40	GTCGCTTATC AATATGAAAC ACAATACAAT TTACATGACG TTTATGAAAA ATTATAAGGA	60
	GTGGAAATCA TGCATTTTGA AACAGTTATA GACTTGNGTT CACGTAGAGT TAAAAACGGA	120
45	CTCAAAAATG TTTCTCCATC ACCAGCGCAT TINGAGCAGA ACCTAACTCA AATACGAATG	180
		240
	GTATCGCTTA GCATATCCAG TGCTTACCAG TTGTTAATAA GCGTGCGTAG ACGGGCATGC	300
50	GTGCTGCAAT GCCTAAATAG GAACG	325
	(2) INFORMATION FOR SEQ ID NO: 3052:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
55		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3052:	
	CTTTTAATCG CTTGAAAACT ATAGGTAAGA CAATACAAGT AGCTACAAAG CCATATATTA	60
10	CTGTTAATTG ACCTATGAAA AAATATCCGC TAACGGGTGC CGTCAATCCT GCGATAGCAA	120
	TACCAATAAA AAGTACAGTC CACGAAGGAT AAACATTTTC AAGTGAAAAA TCTTTTAAAT	180
	ATTTTATTGA AAAAATAATC ATATGCGTCA TAATTCCCAC AAGGCATAAA ATCCAAATAG	240
15	GCGTATTAAG CTATTGTAAA GTTTGTTACT AAAAAATGTT TTAAATAGTG TnCTAAAAAG	300
	CCGGCATGAA AATGTGTGAC CTGATGAACT GAGGCTGTTA TTGTCTTCAC TTATTAAATT	360
	TGTCTAGTCT AAAGGTGATC CAATCAGAAG CAAGTCCGCA	400
20	(2) INFORMATION FOR SEQ ID NO: 3053:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3053:	
	AATGAGATGC GAAGGATGAT CAGAGAAAAA GTCTCTCAAT CAGGTGTGAA AGTCAGATGG	60
	TTATCACAAC TTTGGCGTAC GTTTTCGATA TAATGCACTA GGTGATTTAA ATACGAGCAA	120
35	TATTGTTTCT TCAAAAGAAA GTTTCGGTAT TACTGAAGTG TGAAATCTGT CTCTATGCAT	180
	GCCGGATCGA CATTAGCATT ACTAATCCAG AGAAAGCAAA AGGTATTGTG TATACACCAG	240
40	AACATTGCCA GCGAAAAGTA AATGGTCACA GCTGTAGAnC AAGGTATTTA TAATGGGGGC	300
	GGTAAAGCAG AAGGCCCCTA TGTAGCATTT ChTAAAGhTG GGAAAAGGTA AAGCAGCATT	360
	ATCGGTG	367
45 50	(2) INFORMATION FOR SEQ ID NO: 3054: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3054:

	THATTTATCT HAGCTCATGA CATGATGGCT GTTCACATTG CAAGGCGTTG ATGATHAAAT	120
	AAGGAAAGGC ATTAGGAAAA AGCCACAGGG AAAACATTTC AGCAGCAGGT TCTTGGAATC	180
5	ATATATTCAA GTTCAACAAG CGAATGCTGT TAAATTGCCC TTTGGATGAC AATCAATTCG	240
	ATATCGTTTT AAATGAAGCA ATGTTAACAA TGTTACCCAT CGCCATAAAG GAAAAAGCAT	300
	TACGCGAGTA CTACCGAGTC TAAAGCCTGG GGGTATCTGT TAACACATGA TATTGTCATC	360
10	GTTAATGAAT CACATGCCAC AC	382
	(2) INFORMATION FOR SEQ ID NO: 3055:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3055:	
	CTTAAGATTA GGTGTGCTTA ATTAGTACTG GCTGGGAACG ATAAAGGCAT ATTGCAAAAA	60
25	ATAGAACATC CATATCCATT AAATGTATTT ACGCTAAATA TTGnCGACTT ATATTTTTAG	120
	ACATAGAGAA GAGACAAGAC AATTTTTAAC GATGCAACGA CAGTTAGGCT GAGGCAGTTA	180
30	AAACAAATAT TTGATACACA TGTTGnCAGA TAAAAGTCAG TGTTCCCATC AAATGCNAAT	240
	TTTGTACTAC TAAAAGCTCA GCAGCGCAAC AATTAGGACA ATACGTATAT GAACAAGGGA	300
	TTTAAACCTC GCTTTT	316
35	(2) INFORMATION FOR SEQ ID NO: 3056:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3056:	
15	GTTCACCATC CGTTTATTTC AATGAAAAAA TCGACAAAAA TGGTCGTGAA AACTATGATG	60
	CAACAATTAT TCCAAACCGT GGTGCATGGT TAGAATATGA AACAGATGCT AAAGATGTTG	120
50	TATACGTACG TATTGATAGA ACACGTAAAC TACCATTAAC AGTATTGTTA CGTGCATTAG	180
	GGTTCTCAAG CGACCAAGAA ATTGTTGACC TTTAAGTGAC AATGAATATT ACGTATACTT	240
	AGAGAAAGAC nGCACTGAAA ACACTGACCA GCGTATTAGA ATCATGACGT TACGTCCAGT	300

	CTTAGCAGCG TGGGnCGTAT	380
	(2) INFORMATION FOR SEQ ID NO: 3057:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 327 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3057:	
15	TATGTGATGG ACTTAAAAAA ACGAACTCAA TTAATACAAT GGGCTCAAGA AAAAGAAGAA	60
	CGATTTATTA TAGAAGATGA TTATGATTCC GAGTTTAGAT ATTTCGGCAA ACCCATTCCA	120
	GCAATTCAAG GTCTATATTC AAGAGGAGAA AAAGTGATTT ATATCAGTAC ATTTTGCAAA	180
20	GTCTATTTT CCTAGCTGTT CGAGTTGGCA TATATGGTGT TACCCTATTC TATATGGAA	240
	AAAATATCAT TTCTmCAAAA TCCACCATTG GAAGGGCAAC ACTGGTAACC TGTTTCATAT	300
	GGCAAAACCT TATTGGCAAC GTTTnAT	327
25	(2) INFORMATION FOR SEQ ID NO: 3058:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 284 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3058:	
	CGAAAAAGGA GAATGAAACA TGAGGTAATA CAACATTACA TGCAACAACA ATTTATGCGT	60
	GTAAGACATA ATGGAAAGCA GCTATGGCTG GAGATGGGCA AGTAACGCTT GGTTCAACAA	120
40	GTCATCATGA AACAAACGGC AAGAAAAGTG CGACGTTTAT ATGAAGTAAA TGTTAGCTGG	180
	TITCGCAGTA TGTAGCAGAT GCGTTTACTT ATTTGAAAAA TTCGAAACAA NATTACAACA	240
	GTTTAGTGGT AACTTAGAAA GAGCNGCTGT TGAATTGGCA CAAG	284
45	(2) INFORMATION FOR SEQ ID NO: 3059:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 302 base pairs (B) TYPE: nucleic acid	
J0	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ANGENGEGG ATGANGAGET TIGEATIGAG CTCGACCCAG GTATGGCTTT TGGAACAGGT	60
	GATCATCCGA CTACAAGTAT GTGTTTGAAG GCAATAGAAA CATATGTATT GCCACAGCAT	120
5	TCAGTAATTG ATGTTGGTAC TGGCTCAGGT ATATTAAGTA TTGCAAGTCA TCTAATCGGT	180
	GTAAAACGTA TTAAAGCGTT GGATATTGAT GNAATGGCAG TGAGTGTAGC TAGAAGANAA	240
	CTTCAGAAGA NATCATTGTG AACGTTGAAT TGGAAGCTGT TCCAGGTTAA CATATTGGAA	300
10	AG	302
	(2) INFORMATION FOR SEQ ID NO: 3060:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3060:	
	TTTTTAAnGA CACATTGNGC TGTGTTTAAT GCATGAAAGG AACCACTGAC ATGCATNAAA	60
25	TCTTTGAATG GTTCTTTATC AATTCCTTCC CCCCTCTCAT GTTTTGTATC TTTAAATCAA	120
	TATAATTCAA AAAGGGTCGA GGATATGAAA TCACATCTTC GACCCTTTAT TTACTATTTT	180
30	AATTCAGCCA CACGCAAACG GTTATTTGCT CTCTCTAAAG CTCTTTCGGC TCTATGGAAT	240
	ATCAGTATTG TCGTCAATCA TTTTCCAAGT GAGACTCTGC TCTTGCTTTG GCTAATTTAG	300
	CTCTTTCAAC ATGAATTTCT CTTGCAGTTC	330
35	(2) INFORMATION FOR SEQ ID NO: 3061:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3061:	
45	CGATCAATCA ATATAATTCA CGGCGCAAAA CGTTTATTTA GCATGTTCTT GCAGACTCTG	60
	AAACTGGCAT TAAACCTTCC ATTAAGATTT TTACCATTCT AGGCATTAAT ACCATTACTG	120
<i>50</i>	CAGCCATTGA CATTCCTAAA TTAATGATGT CTCCAGGTTT GTAACCTGCT AACACACCAA	180
	TACCTAAMCC TAAAATTAAG CCGACAAATA TAGACTCTCC AAATGCGCCA AAACGTTTTT	240
	GAATTGHTTC AGGATCAGCA TCTAACTHAT TCAGACCGGG TACTTTTTGT AACAATTTAA	300
55		

(2) INFORMATION FOR SEQ ID NO: 3062:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3062:	
	TATAAAATCA ATGATTTTAA CAAATAAAAA CGTACCGCAA ATACTGCAAA TAACAGCAAA	60
15	TACTAGTTTT AATAAAATAT GACCGGTTGG AAAGAACAAT AAAGCAATTA AAATACCTAG	120
15	TTTAGCCCAT TCCATCGTTC CAGCTGTAGT CGGACTAACA AACTTATTTT GCATCATTTG	180
	TTGGCATTAT CAAGCCTGCT GAAAGCCAAC GAACTTCCAG CAATTAAAAT ACTCATCGTC	240
20	CTTGGTATTC GGGCTTGGAG AATAAAATGA TTCCGCTGGT GACTCAGTTG AAATGTAGTG	300
	AAATCTTTGA ATTGGATAGT TnCACTGCAC ACCTGATGGN ANCAACGGAA	350
	(2) INFORMATION FOR SEQ ID NO: 3063:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3063:	
	TTAGTGATTT TAACGTGTAT CGGTAATTTT AAATAAATGT TTAATGCTTT TGAAAATACA	60
35	GTTCTAACCG AAGACGTCGG GTACACTGAA TCACCGGAAA CGCCAAGGTC TTTTATTAAA	120
	CCTTGTTCAC TATATTGCAT ATACTGTGGA TGCTGTCGCA ACACATTGAT TTGATAAGGA	180
40	TGTGTTGGTA ATAAAATAAA ATCTTTGGGT ATCTCTGATA TATCTATGTC TGCTAATTGG	240
	ATACHACACT TTCTCAACCT GGATCCTTCC TTTTACCTHC CACCATAGCC GCGTGGANCA	300
	GGAAACCATC CTGGGATGCA CCAGCCAAAA TAAATGCCAA TT	342
45	(2) INFORMATION FOR SEQ ID NO: 3064:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GIGGGGGG AGARCCAAAC IIAACAGIAI IAIGGICAGI ACGIIIACCI GACAACIICA	60
	AAACATACTG TGCAAAAATG AGTATTAAAA CAAGTTCTAT CCAATATGAA AATGATGACA	120
5	TTATGCGTGA AAGCTATGGC GATGACTATG GTATCGCnTG TTGTGTATCA GCGATGACAA	180
	TTGGTAAACA AATGCAATTC TTCGGTGCAC GTGCGAACTT AGCnAAAACC TTACTTTACG	240
	CTATCCATGG TGGTAAGATT GAAAATCTGG TGCACAAGTG GGCCCAACCT CCGAGGGATT	300
10	nACCAGCGGA GTAATT	316
	(2) INFORMATION FOR SEQ ID NO: 3065:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3065:	
	TGATTGCGTG GATCAGCAAC TTCAAAGATT AACAAATAAT ATTACTTGGG CAGATAACCG	60
25	CGCTGCAAAA TATGCAACAG TAATAAATGA AGTGCATGAT GGGCAATGCG ATTTACCAGC	120
	GNACAAGCAC ANCGGTTTCA TCCTATGTCG CCATTAGCGA AGATTTTTGG ATGAAACATG	180
30	ATGGCCAGAT GTATTTCCAC GTACTGCTAA GTTTGCAGAT ATTAAAACAT ACATTTCTAT	240
30	CATTATTGAT ACATATATCA TTGATTATTC CATGGCTTCC GCnACAGGGA TGTTAATTAG	300
•	AACATAGATT GGAGTGAGGC AT	322
35	(2) INFORMATION FOR SEQ ID NO: 3066:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3066:	
45	TATAAAGAAT CCTGCCTTAC CTAAGAACAC TTGTCTTGTC	60
	CTTATGTTTA TTATCAACCG TTAATAAACT TACCATCAAG AGTGCACCTA CCCATACTGA	120
	CAGTGCAGTA TAGAATGGTG TCATACCTGA ACCATAATCC TTAACTGGGA AAACATCAAC	180
50	AGTCTTCTTA TTAATAGATT GCAATAATAC CCGCTGCTTT TTCAAATCAT TCTAnTGGTC	240
	GATTAATTGT CGACGCATCA TCTTGTCAAT TCTTGAAATT TATTCGCTTT TCAACTTTCA	300
5 5		

	CACGCTGACA TAC	373
5	(2) INFORMATION FOR SEQ ID NO: 3067:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3067:	
15	TTCAGAGTTC GGAACATAAG GCGCTACAAT GTTGTGTTGC CAGTAGTTGA CTGAATATGC	60
	GTTTGTAACA AGCTTTTTC GATTCTAGTC AACAGTAATT AAATTTATGA TATGGGCAAT	120
	ACTITGIAAT ACTAATATTA AATGGCGACT TTATITCACT ATGITATAAG AGTGCCATIT	180
20	GTTGATAAAG GNATACTAAA GGGTATCGTT TGGAATTTTA GTAACTAGAT ATGTTCGGGT	240
	ATAGACCGNA TTGTGGATAC GTAAATTTAA TGCNATGAAT TTTAAAATGA AAACATGACA	300
	TTAAATGAAT C	311
25	(2) INFORMATION FOR SEQ ID NO: 3068:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3068:	
	TATGATTATC TAGTAAGTAA ATTGCTGACG CGCCGAATAC CGCAAAGAAT ATAAAGCAAA	60
	CTAACGCCGG GACAAAAGT ACACCTAGGA ATAAATTCTT TAATCGTACG TCCTTTTGAC	120
40	ACACGTGCAA TAANATACCT ACAAATGGGT GCCCAGGNTA TCCACCATGG CCCAGTAAAA	180
	GATTGTCCAA TTTTGTAACC ATTGGGAATT TTTGACCACC TGTCGGAATG CGTAAACTCA	240
	TACTTAAAGA AATTTGCATT ATAATTACCT AGACC	275
45	(2) INFORMATION FOR SEQ ID NO: 3069:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 321 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAATGGGTTC TGTGACATTA ACGTCTACAA AAGATGGTTC AGAAGAAACA CACGAGGCTG	60
	ATGGTGTATT CATCTATATT GGTATGAAAC CATTAACAGC GCCATTTAAA GACTTAGGTA	120
5	TTACAAATGA TGTTGGTTAT ATTGTAACAA AAGATGATAT GACAACATCA GTACCAGGTA	180
	TTTTGCAGC AGGAGATGTT CGCGACAAAG GTTTACGCCA AATTGTCACT GCTACTGGCG	240
	ATGGTAGTAT TGCAGCNCAA GTGCAGGGAA TATATTGACA TTAACGATCA GCCTAANTCC	300
10	GAGChGATTA GATGTGAGCG G	321
	(2) INFORMATION FOR SEQ ID NO: 3070:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3070:	
	GTTTGACCTG CATATTTGAC AGTCATAACC TTTGTATCAC CATTATATTA ATATCAAAAT	60
25	CTTGGAACGT GTTATTTGAG nTGACATTTA ACTTCGCAGC ATTATCAGCT GTTGAACTTG	120
	ATGTATACGT TGCGCAACCC ATAACTATCT GTGTTACAAT GCACCAAACG CACCTCCACC	180
30	AGCTACATTA GATGGGCAGC TTCGCCTTGC AGCTGATTGG TTTAGATGAT TGTGATACGA	240
	TCCAATTTGA AGCCAAATnG TACTTAAGCA CAATCCTACT GCGGACCGTT TAACCCTGTT	300
	TCACCTATAC ACTGnTGAAA GGCAAACCGT ACCACTCACC ATTTCCATGC CTTCCATATT	360
35	TGGTTACCAA ATTTACTTTT CCCnGAAAAA TGAAACTCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3071:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3071:	
	TGGCCATTTG TCATTGCATT TTTACCGTGG GTGTTGATTA TTATTCCTTA CTTACTATTT	60
50	AAATCGGATA CACTAAATAT TATTCATACG GGTGATAATA TTGCACGAGG TCTAGGTGTA	120
	AGGTTAANCA GAGAACGTTT AATATTATTC TTTATCGCAG TGATGTTATC ATCTGCTGCT	180
	GTAGCATAGC AGGTTCAATT TCGTTTATCG GATTAATGGG TCCGCATATT GCCAnACGTA	240
55		

	(2) INFORMATION FOR SEQ ID NO: 3072:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3072:	
	GACTCCCTGC AGGTCGACGT CTAGAGGATC CCCCCACAGC AATTCACTTA TACATGTAAC	60
15	AGTGTGAAAT AATAACGTCA CAACGGCATA ATACACATTG CAACGTCCCA ACAACATATC	120
	ATAGAATCGT AACGGCATGA CATCAACACC AAACCTGGGC TATAACACCA TAACAGCGCA	180
	ACGCCACATC ATAGGCACTA CATCAAGTCG CATCGTAGCA CCAGCACATC AAAGTAACAT	240
20	GGGCATCAAC ATCAAACCGG TCTATAACAC CATAACACCG GCAATGCCAC ATTCATAGGC	300
	ACTACATCAA GTCGGCATC	319
	(2) INFORMATION FOR SEQ ID NO: 3073:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3073:	
35	ATATACGCTT ATCAGCTGGA GCTCAATAGA TGGAGGATGA TTATGGGGCT ACCGGTTCTG	60
	TCTATAGCAC TGGTCTATCA GCTATGTGGA TTACAATCGG TTTAACATTA GGTGCTTATA	120
	TAAATTACTT TGTTGTTGCT CCTAGACTTC GTGTTTATAC CGAATTAGCT GGAGATGCAA	180
40	TTACATTACC AGATTTCTTT AAAAATCGTT TAAACGATAA AAATAATGTG TTAAAGATTA	240
	TTTCTGGATT GATTATCGTA GTATTCTTTA CATTATATAC nn	282
	(2) INFORMATION FOR SEQ ID NO: 3074:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3074:	

	AATCGANAAA TCATGGATGT ACTTGAATCA AATGCAAACA GCGAAGTGTn TTGAATTGCA	120
	TGGTAGCGTT ATAGACGAGC CAGTAGAAAT TCAATCAATT AAAGTATATG TTCCTAACGA	180
5	TGATGAAGGT CGTACGACAA CTGTAATTGG TAATGCTTTC CCTGACTCAG AAGTTAAATG	240
	CATTACACCA GCAGATATCA TKGCTTCAAT GAGTTACTTC TTTAACTTAT TAAGCGGLAT	300
10	TGGGLATACA GATGATATTG GACCATTAGG TAACCGTCGT TTACGTTCTG tAGGKGGAAT	360
70	TACTACMAAA CCAATTCCGT ATCGGTTTAT CCAAGA	396
	(2) INFORMATION FOR SEQ ID NO: 3075:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3075:	
	ACCTACATTT GCAGTTGTCG GTGTATAACC GGCTGGTGTT GAAAACTCTA CACTATAAGT	60
25	TCCATTGCTT AAACCAGTGA ACTGATATTT ACCATTTTCA TCTGTTGTCG TACGATCTAA	120
	TTCTTTACCG TTACTATCTT TAAGAATGAC ATAAACACCT TTAATCCCTT TTTCATTGGC	180
30	ATCTTGTTTA CCATCTTTAT TTGTATCTCC CATACATAGT CACCTAGATT ATATTCTTTT	240
	GGGCGCCATA GCAGTTGATG AGCATTCACA TTGAAAAACT ATTGACCACT ATATTAGTTT	300
	GCAGTGCTAA GDATAACATT TCCATACGTG ACATACTGAT AGACTGTGAG TGATGTATGC	360
35	GCTGnTGCTC ATAACG	376
	(2) INFORMATION FOR SEQ ID NO: 3076:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3076:	
	TTACATCACC AATTAGACGT TATCCTGATT TAACAGTTCA TCGTTTAATC CGTAAGTATT	60
50	TAATTGAGAA ATCAATGGAT AACAAAGAAG TGAAGCGTTG GGAAGACAAA TTGCCTGAGT	120
	TAGCTGAACA TACTTCTAAA CGTGAACGTC GTGCTATTGA GGCAGAACGT GATACTGATG	180
	AATTGAAAAA AGCAGAATAT ATGATTCAAC ATATTGGTGA TGAATTTGAA GGTAATGTCA	240
55		

	AAngengaga tataegttig aggegeaatg e	331
	(2) INFORMATION FOR SEQ ID NO: 3077:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3077:	
15	AATCATATGC ATCGATTTCC AGCAACAGCA ACCATTCATC CTATGTCCCA TTAGCAAATT	60
	TTTTGGATGA AACATGAATG GCAAGATGTA TTTCAACGTA CTGCTAATTT GCAGATATTA	120
	AAACATACHT TTCTATCATT ATTGATACAT ATATCATGAT TATTCATGGC TTCCGCAACA	180
20	GGATGTTTAT TTAGAAACAT TAGATTGGGA TGTTGAGGCA TAGAACTGCT GGGTATTTCC	24 0
	AAGGAAATGT TGCCGGAATT ATTCCAACAA CTATTGATGT AAGTATGAAA GAACGTATGC	300
	AACATAATGG GCTAATAAAG TACACCGTnT GTTAATGGTG CnATG	345
25	(2) INFORMATION FOR SEQ ID NO: 3078:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3078:	
	GATTATCAAG CGATTGATCA AGTATCATCA TTGTTGAAAG AAAAATATGG CATTGCACAT	60
	TCAACGTTGC AAATTGAAAA CTTGCAATTG AATCCATTAG ATGAGCCATA CTTCGACAAA	120
40	TTAACATAAA TAAAACATTG TAGCGCCTAA AACATTAATC TATGTCATAG GCGCACGTTT	180
	CGTTTTATAC TTATGTTGCA TCATTTAAAT GATTTTCGTC AATTTCTTTG ATGCTATCTA	240
45	CATCTAACAC GAGGTTAACT TGCGTTGATT TTGATAAAGT GATCATAGCT TTTAGTACTT	300
	GAGGATTTTT ATTGTTGCTG TTACGAATGT GGTCATGTTT AATGCGGGAC AGTAATTTAA	360
	GTTGTTTTT TACAATTGAG AGTGTGATAT TTCGATTCGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3079:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3079:	
5	AAACGTTTAA TATACACTTT TACACGTCGC CTTCATTGAA GCGAATTGCC ATAACCTTCA	60
	CATTATATAT AGTTCTTTCC ATATAAATGT CCAAATTTTT AGAACAACGC AATAFATAAC	120
	CATCCACCTA ACTTATCAAA AATTTAAGTG GATGGTTTTT CATTTTCATT TATATTTATA	180
10	TTAGTGTTAA TCCAATCATA GATTTATCTA TATGCACTGC TCTATACATT TCCTCATTTA	240
	ATTTGCYTTA CTTTCATTTA TATCATTATC AGAACACTTG GCGTGTCATC GNTATTATTT	300
	CGCATCTTTG ANACGTTTA	319
15	(2) INFORMATION FOR SEQ ID NO: 3080:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3080:	
	TCAAATGCAT CTAGGnCACA TTATTCTATT TGGGCATTCT TAGTGCTGTT CTTATTTGCG	60
	GCTTTAACGT CATCTATTTC TTTATTAGAA TTAAATGTTT CTAACTTCAC GAAGAATGAC	120
30	AATACAAAAC GTAAAAAAGT CGCAGTGATC GGTAGTATTT TAGTATTTAT CATTAGTATT	180
	CCAGCAACCT TATCNTTTGG TATCCTAAAA GATGTAAGAT CGGTGCGGGA ACGATTTTTG	240
<i>35</i>	ATAATAAGGA TTCCACCGTT CGAATGTAAT GAAGCCATAA GCGGG	285
	(2) INFORMATION FOR SEQ ID NO: 3081:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3081:	
	ATCATAGCGT TTCTCCTAAA AATTACGATT AATCAAAGTA TGCCATTATT TAACTTTAGT	60
	TTCTTCAGAA TTATTTGCCC CATTATCATG TTTTTCTTCT TTATTAACAG CATTTTTATC	120
50	ATTTTTAACA AGATACAATT TACCAATTAA TGGGCGGTGT GCGTGCTGGT ATGGGTTATA	180
	CTGGTTCACA CGATTTAAGA GAATTACGCG AAGAAGCACA ATTTACACGT ATGGGTCCTG	240

	CATTCTAATT AAGATAAAGG AGAACGACAA ATATGGGAAA TGGCAAAGGA CCAAGAGTTA	360
	ATCCTTGTCT TAGGACTTTG GTAGGCCATT ACACCCATTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3082:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3082:	
	TGAATTTGCT CCAAATAAAA ATACAATTGC CATTAAAATC ACCAGATATT ACAAGTGGCA	60
	ACATGTTAGA AACACCGTTC ATTAAGTGTT TATAGAATGC TTTACCTGGG CTTATTTCTT	120
20	GACTGTCATT TGAGTTACCT GGCAACAAAA GGTTTACGAC TTGTATCTAA TGAATACCAT	180
	CTGCTACTGG THCTTCTACG ACATTTTTAC CATCGANGCG GTCCGTCTCA ACATGTACAT	240
•	CAGCAGCA	248
25	(2) INFORMATION FOR SEQ ID NO: 3083:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 368 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083:	
	TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC	60
	ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA	120
40	ATATAATATT AGTCCAGTAA TCACAGGTAT TATTTTAGCA ATCGTAACAG CTATTATTAT	180
	ATTTGGTGGT GTACGTAGTA TTGCTACGTA TCCTCGTTAA TGTACCGATA TGGCTATCAT	240
	TACATGGTAT GGTTTAGTAA TAATGCTATT AATTTAGACC AATTGTCChA TGATAGGACG	300
45	ATATAAAAGG CATTGGNACG ACAAGNACTG GTGCGCTGAG GGCTCGGTCT CCAGGACAAC	360
	GGGCTATC	368
•-	(2) INFORMATION FOR SEQ ID NO: 3084:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3084:	
5	TTGGACTTTA TAAAGTTACT AAGTTGTAGA TTATCCTGGT AAAGAAGATA TTGCGGTTGT	60
	ACAAGTTGAA GAAAAATCAA CACAACCAAA AGGTAGAAAA TTCAAAGATT TCACTAGTAA	120
	ATTTAATATA GCATCAGAAG CTAAAGAAAA TGAACCTATA TCAGTCATTG GTTATCCAAA	180
10	TCCTAATGGA ATAACTACAA ATGTATGAAT CAACTGGTAA AGTATTATCA GTGAATGGGA	240
	TATAGTGNAT CGGATN	256
	(2) INFORMATION FOR SEQ ID NO: 3085:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3085:	
25	ATATGCATAT GCTTCTTTAG GTGAACGAAT ATCTGGTTCA GATACGATTT CAATTAGCGG	60
	TGTACCTTGA CGGTTCAAGT CAACTAATGA ATACTCCACC TTTATGTGTT GACTTACCAG	120
	CATCTTCTTC CATGTGAAGA CGAGTAATAC CGATTCGnTT TGTTTCACCG TCGACTTCGA	180
30	TATCGATATA TCCCATTTCA CCAATTGGGT TGATCAATTG AGAATTTGAT AGCTTTGGGA	240
	TATCGGGATA GAATAGTCTA CGGTCAACTA GATCnGGTGC GANTCCATAT TTAGTGCCAT	300
	GCAGCACGCA T	311
35	(2) INFORMATION FOR SEQ ID NO: 3086:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3086:	
	ATGTAAATGA TCATCCTTCA TAATAACAAC GATTACTGAT CTTGATCATG ATTTTGAACA	60
	ATAACAACTG CTTTATTAAT ACCTTGTATA CGCTCGAGNC ATGCCAACCT CTGACAACTC	120
50	AATCCTAAAC CCTCGAATCT TAACTTGTTT GTCCTTTCGA TATAAATAAT CTATGTTGCC	180
	ATCGGGTAAC AAACGAACGA TATCACCACT TCCTATACAT CAGCTGATTT ATATTTGAAT	240

(2) INFORMATION FOR SEQ ID NO: 3087:

55

_. 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3087:	
	GTAAAGATTT CAATTCATCA TCTTTAAATA AACTTAATGG TAATTMGTTA TACCMAATAA	60
15	AGCCTTCTGG ACACTTCCTT TAGACCGACG ACCGTCTTAG CTAATGTCGA TTTCCCTGAC	120
	CCTGATTCAC CGACAATGCC TAATGTTTCG CCTTTTCTAA TAGCCAAGTT AATATCATAA	180
	CTGCTCGGTA TGGGCTGCCC CTCGGTGATG TGTAATCCAC GCTCCACGCG ATCGATTTTA	240
20	ATAAAATATC ATGGTT	256
	(2) INFORMATION FOR SEQ ID NO: 3088:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3088:	
	AAGGTTATTT GAATGATCAA GGTATCCACA AAAGAGGTGC TGAAATAGAT CGACTCGTTA	60
35	AAGGATGTAC AGGTGTTAAA CGTACAACTG GACAGCATCC AGGGGGTATT ATTGTAGTAC	120
	CTGATTACAT GGATATTTAT GATTTACGC CGATACAATA TCCTGCCGAT GATCAAAATT	180
	CAGCATGGAT GACGACACAT TTGATTTCCC TTCCTnTCAT GATATGTATT AAAACCTGAT	240
40	AAACHTGGAC ACGTGATCCC ACCATGATCG ATGCCTCCAG ATTATCAGGA ATGATCCAAA	300
	ACCATACCTG AGATGTAAGA GTATCAGTAT TAGACnC	337
•	(2) INFORMATION FOR SEQ ID NO: 3089:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3089:	

	AAACATTACT TTACGCTATC AATGGTGGTA AAGATGAAAA TCTGGTGCAC AAGTTGGTCC	120
	AAACTTCGAA GGTATTAACA GCGAAGTATT AGAATATGCC GAMATTCAAG AATTTGATCA	180
5	AATGATGGAT TGGCCTAGCA GGTGTTTACA TTAACTCATT AAATGTATNA CTACATGCAC	240
	GATAATACAG CTATGACGAT TGAATGGATT ACATGTACAG AATTGTCCGn CCATGGCACA	300
	GGA	303
10	(2) INFORMATION FOR SEQ ID NO: 3090:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3090:	
	CTTTCGTTAA AGGGGCATAT TCATATAATG GATGGTCATT AATAATAATT CCTGCCGCAT	60
	GTGTAGATGT ATGTCTTGGT AAACCTTCTA ACTTTTTACA AATACTGAAC CAGCGTTCAT	120
25	GTCGATGGTT TCGATGTACA AACTCTTTAA AATCGTCAAT TTGATATGCT TCATCAAGTG	180
	TAATTCCTAA TKTATGTGGG ATTAAACTTG GAAATTTCAT TLAATGTAAC TTCATCAAAC	240
	CCCATAATTC TTCCAACATC TCTAGCAACT GCTCTTGCAA GCAGATGACC GAAAGTCACA	300
30	ATTCCAGATA CATGTAGCTC GCCATATTTT TCTTGGACGT ACTGAATGGA CCCTTTCTCG	360
	GNGTGTATCT GCAAGGTCAA TTTTCATTNT CAGGCATGGT	400
35	(2) INFORMATION FOR SEQ ID NO: 3091:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3091:	
45	TTGTTTTTC ACGTTCAATn ATTATCTTCA ACTTGTGACT ACAGATTTTA AAATGGAATT	60
	TACAAGTATC TTCTTCAATA TTTTGCATCA TGATATCAAA TAATTCATGA CCTTCATTTT	120
	GATAGTCACG TAATGGATTT TGTTGTGCAT AAGAACGTAA GTGAATACCT TGACGTAATT	180
50	GGATCCATGT GTCGATATGG ATCAGTCCAA TGGCTATCAA TAGAACGAGG TAAAATCATA	240
	CGCTCAAACC CCATCCATTG GNTCCTCTAA GATACCTTTT GACCTTGGAT AGCNGCTCAA	300

(2) INFORMATION FOR SEQ ID NO: 3092:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3092:	
	CGACACCTCA ATAATCATAT CGTAATGTTC AACTTTTCCT GATTTAAATG TAATTTCATT	60
15	TCCATTGATA GCATTAATTT CCTCATTTAA ACGGTATGGA ATCTCCCGCT TATCTAATTC	120
	ATCAAGTATA GGTTGATTCA GTCGGCATCC ATAATTTATT TATCTTATCA GATCGATGAA	180
	TAAAGTAGGG TGTAAACCAC GTTCCATAAA GATTTCAAGG AACTCCAATG GAACATAACC	240
20	TGCACCTACC ACCAATACTT TATCCACTTG GATTGGCTTG GAGGAATGGT CGGATAGGCA	300
	TCCAGGGCCT CCAAAATTCC NAGGGGAAAN GGTAATATCC ACCTTCCAAG GCCAAGGGCC	360
	AATTGGCACC TGGCCACCCA GGGnCTTAAA AAGGGGTTAA	400
25	(2) INFORMATION FOR SEQ ID NO: 3093:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3093:	
	TTATACCCGn CAAATTCATA AATATAGTnC CTTTTCAATA GATTGATATG TATGTCTAAA	60
	TGTATCGATT AACTTTGCTA ATGCTGCTTC ATCTAATGGT CGGTCTGCTA ATTTTAAAAA	120
40	TGTATTCTTC AATAGGTATT CCCATATAAT GCGTTATTTC TTTAGATGAT GGTTCCGTTA	180
	AGCCACATGC TTTAAATGCA CTTTGTGTTG CTACTTCACC ACATTTTTTC GTGTCTGCCA	240
	ACGTACCATC AA	252
45	(2) INFORMATION FOR SEQ ID NO: 3094:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AATCTATTAA TAATGAAGAA AAAATTGTAC TAGCACGTAG ACGGTTAATA AAGTTCGATA	60
	AAGATATCAG TATTCCATAT ATTCTAAAGC AAGCATATTC TAAAGAAAAA AACAGTTATA	120
5	TATTCTTGTT AGAATCACAA GATTCTATAT TCTTTTCACA AACACCTGnn CAATTAATAA	180
	AGGTCAATAA TAAAATCTAT CGACTAAAGC TGTGCAGGTC AATTAAACGG TCACAAGTGA	240
10	GGCCGAGGTA CAAAAAATGT TGAGCATTTT AAAGTATAAA CTTATCGACA CGNTTGTGTG	300
10	CAGTTTTCAT GTTT	314
	(2) INFORMATION FOR SEQ ID NO: 3095:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3095:	
	GGTGAGGCGG CATTGAGAAA AAATGCTGAA GTAATCGAAG CTGTATCGCA GTCTTGTTTG	60
25	ACAACAGGAT TTTGTTTATG GTGCCAATTA GCTTTTTCAA CGTATTTAGA AAATGCCACG	120
	CAGCCACATT TAAATAATGA CTTACAACAG CAATTGTTAT CTGGAGAAAT ATTAGGTGCT	180
30	ACCGGATTGT CTAATCCCGA TGAAGTCATT TAATGGATTT AGAAnAAGTT GGACCCTTTG	240
	AAACACCACC TTAATGTTGG ATGGGACCAA TTGGGTGGTC CAGTGGGANC GTAATGCCCA	300
	GCTGTAAAGT NATAATCCAA GGAAAGACCC AT	332
35	(2) INFORMATION FOR SEQ ID NO: 3096:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3096:	
45	TTTATGCATA CGCGCACTCA TCACACTACC GACAACAACA TCATCTTTTC GAGCATATCT	60
	ACTTAACAAC GTCATGACCA CACTCATAAA GAACATAAAA TCAGTAATTT GATGCTTTTC	120
50	TACATACTTT TGAAGTAGCT GTCTCATTTG TTGATTCATG TAAATGACAT CATGCTCCAT	180
	TTGTCGGTTT AATAATTGGT CTAACATANT CTGTCGGGTA AGCCTAAAAT AGGGTACTTC	240
	ATCCTTGAAT TGAGGATACC CATATTGGTC CTAAGGTTCG GTCCATATCC ACGGATGGCG	300

	ATTTAAGGTT GGATAAAGGT GCCGTTAAGG ATCCAATTCC	400
5	(2) INFORMATION FOR SEQ ID NO: 3097:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3097:	
15	ACTCTGGTCC TTCTGCATAA CTGCCGTAAA TAATTCACCT TCATCACACG CTGTACCTAC	60
	CARTARTCCC nCACGATATA CGTGGAATTC GAGGTGTACG GTAGAAATAC TTCACCAATG	120
•	ATGCACTTAC AATTTTAAAT AGATTTTTAA GACCTTGTTG GTTTTGTACA ATTAATGTGA	180
20	CATGACTAGG TCTTGCACGT TTATATGCAT CTTCATTACT GAGTTTTTTG GTTGATTTnC	240
	GTTATGATTT AATACGGCTA ATTCT	265
25	(2) INFORMATION FOR SEQ ID NO: 3098:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3098:	
35	CTAATGTATC AGTTTGGCAT GAATTCTTTT GCATCTTTCA ATAATTGTTG TGATCTTTTT	60
	TAGTCACATC ATCAATTITC TTATCTTCGT ATAATGCTTT TTCAATCTTA TGATATCCTG	120
	ACCATTCTTT TTCCTTTTC TCTTCTTCA TATCTGCAAG CGGGCATCCA ATTTTAGGAT	180
40	CCTAAATCTC CCAAATGCTT CTGAACTGGT CAGAGCGTCA TAATACATAC GACTTTTGGA	240
	TATACGCTTT ThCTTGGGCA TACATTATTT CAATCGTTTA CAAATTTTTC TGACCTTTTA	300
45	AAATCATTnA CTGTCAnCAG A	321
45	(2) INFORMATION FOR SEQ ID NO: 3099:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

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	AATCAGATGA TGAATGGCGA GAGTTTGGAC TAAATCATTT TGTATTACCT GAAGTTTTAA	120
5	TTTCAACTGA TAATAATGGG ACATTTTTAA CTTATACAGT TAAAAGGGAA AGTTTTACTG	180
	TTGAGGCATT GAACGATTTA ATGGATTGTT CAACAATATA TCGGACATAG AGTGGACGAC	240
10	CAATGGGGGA ATACCAGAAT GAGATATTAT AAAACA	276
	(2) INFORMATION FOR SEQ ID NO: 3100:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3100:	
	GTCATTTGAT GACAATGGTA TTAGACCAAG TACCAACCGT TCTGTGCCAC nTAAAACGTT	60
	GTTAATAACT TGCCGGGCTT CACACTAATC AATGGTGGCA AAGTAGGGGT GTTTAGTCAT	120
25	GCAANGTTAA GAACGAGCAT GTTTGATTCA GGAGATAATA AGAACTATCA AGCACAAGGA	180
	AATGTAATTG CATTAGGTCG TATACATGGA ACTGATACGA ATGACCATGG CGATTTT	237
30	(2) INFORMATION FOR SEQ ID NO: 3101:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(with approximate programment and the volume of the control of the	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3101:	
40	nCGATATAAC AAGGTTGTTA GACTTAAAGG TGGCGATCCA GCGATATTTG GTCGTGTGCA	60
	AGAAGAAGTC GACATACTAA ATGAACATCA TATTGCGTTT GAAATTGTAC CAGGGGTGAC	120
45	ATCAGCGAGC GCNAGTTTGG CTACTATGCA GACAGGTTTG ACAATGCGTA CAGTTGCTAA	180
	AAGTGTGGAC ATTTTCTACA GGTCACTTTT AAAGATTCAG AAGAAAATGA AGTGGGATGG	240
	TCCATTCCTT AAGT	254
60	(2) INFORMATION FOR SEQ ID NO: 3102:	,
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>	(C) SIRMIDEDIESS. GOUDIC	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3102:	
	CAATCACTCA TGTAGTAATT GATACCTAAG AAGTCGTTTA AATCTTTGGC TGCATCTAAA	60
5	ATGGCATAAT CTTCATnTGT AATGTTTAAT TTACCGCCAN TAACAGATAA GATATGTTGC	120
	ACACCTTCCA TCGTTTCACG AGTAATACTT ACCTAAATAT GTTGCATCTA AGATGAATTT	180
10	ATTATGGATG GATATCTTCT AAATTCTGCT GCACGGGACA TCTTCAGGAT TTGGATGGTT	240
10	(2) INFORMATION FOR SEQ ID NO: 3103:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3103:	
	GTTGTAAACT TCAATTGTTC AAATAAATAA CACATATCAT TGGAGGTGAA TTGATATGCC	60
	AGATTCAATC ACAATTATAG ATGAAAACAA AGTGGTTGAT GTTGTATTAA TTGCAGGTAG	120
25	AATTTTACTT GAATCAGGTG CTGANACATA TCGAGTTGAA GATACAATGA ACCGTATCGC	180
	ACATAGTTAT GGTCTTCATA ATACATATAG TTTTGTCAGT TCAACTGCAA TTATTTTTTC	240
30	ATTAAACGAT CGAACAAGTA CAAGATTAAT TCGTTACAAG AGCGTACAAC AGATTTAGGG	300
30	AAnGTGCGAA TAAGCGGGGn AATTCTTC	1 328
	(2) INFORMATION FOR SEQ ID NO: 3104:	:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3104:	
	TTTTGCTTTG TGCGCTAATA ATCTAATGTT CGTGGAACCG DAACCAGAGA TATTACAAAT	60
45	ACATCATCGA CTAATCGCAG GTGTCGTTGA TTCTCCAACA ACATGTGCCT GTTTGCCGAG	120
	CTGATTTAAG GCGGCATTGC AAAACTATTC GCCACGAATC CTGAACGTCC TTTGCCAGCT	180
	ACAAATATAT GTTCAGCATG TAGTATTTTG GATGCAAAGT TGAAAACTCA TCCGCTTCAA	240
50	CATGTGACAA AGTCACTTTA ATCNA	265

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	`
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3105:	
10	ACTAGTAGAG TATCTAATGG TGATTTAATC ATTATTACTG CTGGTGTACC AACTGGTGAA	60
	ACTGGAACTA CTAATATGAT GAAAATCCAC CTANTTGGTG ACGAAATTGC TAATGGTCAA	120
15	NGTATTGGAC GTGGATCAGT TGTTGGTACT ACATTATTGC TGAAACTGTT AAAGATTTAG	180
	AAGGTAAAGA TTTATCTGAC AAATTGATCG TTACTAACTC AATCGATGAA ACGTTTGTGA	240
	CCT	243
20	(2) INFORMATION FOR SEQ ID NO: 3106:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3106:	
30	CTATTGCGTT TGGGTAAATC TAAAGCAGGC GTANATTATC AAAGTTTGGG ATATGCAACC	60
	AGCACACTTA TTCTTTATGA TTGCAGCGCC AGAAGTGGNG CCCAAACACA TCTAGATGCT	120
35	TTACTAAGTT GTCTGGTATT TTAATGGATG AAAATGTACG TGAGAAATTA TTACATGCTT	180
33	CATCACCTGG AAGAAGTACT AGCGATCATA GATGAGGCTG GATGATGAAG TGGA	234
	(2) INFORMATION FOR SEQ ID NO: 3107:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3107:	
	TTTTGAAGCG GCATAATCAT GAAGAATAGG ACTAGGATTA TAACCTTGTA CAGATGATGT	60
<i>50</i>	CGTTGTAATT GACGCACCCG GTTTTAAATA TTCCAATGAC TTTTTGAACT GTCCAAAATA	120
	GCGGnTAGAn ATTCGTTTCA AATGTTTCTG TAAATGCCTC AGTTGTAAAT CCATGAATAT	180

	(2) INFORMATION FOR SEQ ID NO: 3108:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucl ic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3108:	
	CTTTAAGTTA CGTTCGGCTT TGATTAAAGT AAAACGTGGT ACTGTTTCCT ATGACAAGAG	6
15	TCTAATTGGA TACAATGTAA ACAAAATGGT GnATTTGTAT TATAGATAAT AAACATTCGn	120
	TATACATTCA ACATATCGAT GACCACTTGG ATTAAGCAAC GTAATATCAT TCGTACTGCT	180
	CAAGAAATGA CAAACGAAAAT ACGAGAAAAT TTTGAGTCAT ACACGTCATT TAGAATGAAT	240
20	AGTATTATGC AAGTACT	251
	(2) INFORMATION FOR SEQ ID NO: 3109:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3109:	
	CTTAAAGCCA AGTCGATCTG CTAATTITGC AAGTGTCACT GAATCTTGCA ATGCCTTTTG	. 60
	TGCATCCTTA CCTTCATCTA TTAAGGCATA GTCTAATACG CTTAATTTAA CCAATCCGTC	. 120
35	ATCTCCAAAC TTATCCTGTC ATGTCAAACC GACATAACAT TTGTAGCGTT CTTAATACCA	180
	TTCCCTCTGC ATATACCCAC GTATATGATA ACGTNTTTCA NTTAACT	221
40	(2) INFORMATION FOR SEQ ID NO: 3110:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3110:	
	TTTCTTCATC GTTTGTGAGA AAGAGGTATT TTTAATTGGG AAAACAGGTA AAAAGGATGG	60
	AAGTACATAA AAAGAGCAAT GCTTGGGCAT TATTCCnCTT GTTATTATTT GTGGCGTTGT	120

240

GATAACGTAA TTGTGCGTTA TTAATGAATC GAAAAGAATC ATTGCTAAAA AGTGAGTCTC

	CGAAAGGCGG CCTTCAACTG TTAAGAGTGA TTTATTGCAG GCTTCAATCG CGAAATGGTG	300
5	Chaagegest attageacta geegaa	326
	(2) INFORMATION FOR SEQ ID NO: 3111:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3111:	
	CTACGGCGCC TTGCATCTTT CCCAACAATT AACCCCAACT CTATTAGCAC AGATTTATCA	60
20	ATTGATTCAT AAGCTTCATC AAAGGGTGAA CTAACATGCA TTAACGCTTC TTTAATATCA	120
	ATTAAGTCGG CATGTTCAAC ACCAATTTTC CCTTTTTTAT TTTTAGCTTT TTCTCTATCA	180
	ATATACGCAT GTTTAACACC TTTGACATGT TCAGTAAATT GTGACTTCCT NAATTTTTTA	240
25	TCCTCCCTTG GTGnnGGGGG GGGGGGGGGG GGGGGGGGGG	300
	(2) INFORMATION FOR SEQ ID NO: 3112:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3112:	
	TTATTGTTAA CACAAGGnTT CGAACAAGGT TGGTTTAGTA CATTTCAAT CATTTGTCTG	60
40	AGCATTTTTA TCATCACTAC GTTGATATTC ATCATCATCG AACGTCGACA TGAAGTACCT	120
	TTTATTGATT TCTCAGTATT ACGCAACCGT CCGTTCATTG GTGCATTTTT AAATAACTTT	180
	GTTTTAAATA GCGGTCTAGC GTAACAGGGT CTTTCATATA TGCTCAACAC ACCTGGTTTA	240
45	TCGCGCGCAA TCGGACTGTT ACATGCCAAT GCCATGGGCG TTCGAGATCG TTAGTGAAAG	300
	CACATAGTTC GGGCAATGAG CCACATGGTC GTGTCCGTCA CGCACACATA TAGCAGCT	358
	(2) INFORMATION FOR SEQ ID NO: 3113:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 251 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3113:	
	TCGGTCTTGA AAACCGACAG GGGACTTAAC GGCTCGCGGG GGTTCGAATC CCTCTTCCTC	60
5	CGCCATCAAT ATTTATATTA AATTCTATAT ATAATGAAGG TAAGTGCTCA AATTTTGAGT	120
	ATTTACCTTT TTTATTTGTC TTTGAATGGC TCGTAATTTT TGATAATAGA AATGATAAGG	180
	CATTGAGATT GGAAGGGCAT TTGGCTTGTG CAANATACAT AGCNAAATGT CGTTGTTGTT	240
10	TTGTGATAGA T	251
	(2) INFORMATION FOR SEQ ID NO: 3114:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6591 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3114:	
	TTTAAGTGAA TTnCTTTGGG TTACAGAAWT TTCAACAACT TTAAAGCACG TATAATGATG	60
25	ATTTTCAGCT TGTACAAAGG AGAAAAAAAG AAGACAACCA AGCCCAATAA TGGACTGGCC	120
	GCCTAATAAT AAAAACTCTA AAAGTTGTAT TTTAAAAATA GTTCTTTAAA TTATATACCC	180
	ACCACATTTG GTGGAGACC GTTAAACAAT GCATAGTTGC TTAACTTCCA ATATTGAACT	240
30	CATCATTACA ATTTGACATA GAGTCTATTA AAGCGTGTGC CATTTGAGTC CACTTTTATT	300
	TGTATTGTAT AGAGAGAAT AAAAAGAAAC CTTGTTTTAC AAGGTTTCTA ATACGTTATG	360
35	TTATGTAAAT AACAGTTAAT TATACCGGTG GTCGGGGTCG AACCGACACT CCACAAGTGG	420
	AACGGGATTT TGAGTCCCGC GCGTCTGCCA ATTCCGCCAC ACCGGCTTAA TGGTAAACAA	480
	AAAACTTCCC TTTGGAAGCA ATTATGGAGC GGAAGATAGG ATTTACACCT ATACCTCGTT	540
40	CCGGGAAGGA ACGTGLTCTA AAAGTTGAAC TACTCCCGCA AATATTAAAT TATGGAGCGG	600
	AAGATAGGAT TTACACCTAT ACCTCATTCC AGGAAGGAAT GTATTCTAAG AGTTGAAATA	660
	CTCCCGCATT ATTATTAAAT TATGGAGCGG AAGATAGGAT TTGCACCTAT ACCTCGTTCC	720
45	GGGAAGGAAC GTGTTCTAAA AGTTGAACTA CTCCCGCATA AACCTGGAGG CGGCAACCGG	780
	ATTTGAACCG GTGATAAAGG TTTTGCAGAC CTCTGCCTTA CCACTTGGCT ATGCCGCCAA	840
	TAACTGGGCT AGCTGGATTC GAACCAACGA GTGACGGAGT CAAAGTCCGT TGCCTTACCG	900
50	CONTROL CONTRACT ANTANGONO CONTRACCO ATCOMACON CONTRACCO	

CTTGGCTATA GCCCATTAAT AATAAGGGCG GCTGAAGGGG ATCGAACCCT CGAATGTCGG

55

	CGAACCCACA	CCAAAGGTTT	TGGAGACCTC	TATTCTACCG	TIGAACTAIG	CCCCTATTAA	1080
	AAATAATAAA	TGGAGGGGG	CAGATTCGAA	CTGCCGAACC	CGAAgGAGCG	GATTTACAGT	1140
5	CCGCCGCGTT	TAGCCACTTC	GCTACCCCTC	CATAAATGGT	GCCGGCCAGA	GGACTTGAAC	1200
	CCCCAACCTA	CTGATTACAA	GTCAGTTGCT	CTACCAATTG	AGCTAGGCCG	GCTAAGAAAT	1260
	GGTTCAGGAC	AGAGTCGAAC	TGCCGACACA	TGGAGCTTCA	ATCCATTGCT	CTACCAACTG	1320
10	AGCTACTGAA	CCATAATAAA	AATGTAATGA	TGGCGGTCTC	GACGGGAATC	GAACCCGCGA	1380
	TCTCCTGCGT	GACAGGCAGG	CGTGTTAACC	GCTACACTAC	GAGACCTATA	AAATATTGCG	1440
5	GGAGGCGGAT	TTGAACCACC	GACCTTCGGG	TTATGAGCCC	GACGAGCTAC	CGAACTGCTC	1500
	CATCCCGCGA	TAATAAAAA	TAATGGCGGA	GGAAGAGGGA	TTCGAACCCC	CGCGGCCCGT	1560
	TAAGGCCCTG	TCGGTTTTCA	AGACCGATCC	CTTCAGCCGG	ACTTGGGTAT	TCCTCCATTA	1620
20	TTATAGGTAA	ATCGCTATTA	ATTATAAAAT	TAAATGGCGG	TCTCGACGGG	AATCGAACCC	1680
	GCGATCTCCT	GCGTGACAGG	CAGGCGTGTT	AACCGCTACA	CTACGAGACC	ATTAGTAAAA	1740
	CGGAGGAAGA	GGGATTCGAA	CCCCCGCGAG	CCGTTAAGCC	CCTGTCGGTT	TTCAAGACCG	1800
25	ATCCCTTCAG	CCGGACTTGG	GTATTCCTCC	AAAATTATAT	GGaCtTGCAG	GACTCGAACC	1860
	TGCGACCGAA	CGGTTATGAG	CCGTTAGCTC	TAACCAACTG	AGCTAAAGGT	CCTAAATATA	1920
ю	ATTTTACAAC	TAATAAATAG	TGGCGGTGGA	GGGGATCGAA	CCCCCGACCT	CACGGGTATG	1980
•	AACCGTACGC	TCTAGCCAGC	TGAGCTACAC	CGCCTTATAT	agtttgtaaa	TAATATGGTG	2040
	GAGACTAGCG	GGATCGAACC	GCTGACCTCC	TGCGTGCAAA	GCAGGCGCTC	TCCCAGCTGA	2100
5	GCTAAGCCCC	CATAATAATT	ACAGTATATC	GGGAAGACAG	GATTCGAACC	TGCGACCCCT	2160
	TGGTCCCAAA	CCAAGTGCTC	TACCAAGCTG	AGCTACTTCC	CGTATAATTA	ACGCGCCCGA	2220
	TAGGAGTCGA	ACCCATAACC	TCTTGATCCG	TAGTCAAACG	CTCTATCCAA	TTGAGCTACG	2280
0	GGCGCATATG	TTTTTATTGA	AAATGGTGCC	GAGGACCGGA	ATCGAACCGG	TACGGTGATC	2340
	ACTCACCGCA	GGATTTTAAG	TCCTGTGCGT	CTGCCAGTTC	CGCCACCCCG	GCACTATAAA	2400
5	AATGGAGCAG	AAGACGGGAT	TCGAACCCGC	GACCCCAACC	TTGGCAAGGT	TGTATTCTAC	2460
.5	CGCTGAACTA	CTTCTGCATA	TGCGGGTGAA	GGGAGTCGAA	CCCCCACGCC	GTAAGGCGCT	2520
	aGATCCTAAG	TCTAGTGCGT	CTGCCAATTC	CGCCACACCC	GCAAATGGTG	AGCCATAGAG	2580
ю	GATTCGAACC	TCTGACCCTC	TGATTAAAAG	TCAGATGCTC	TACCAACTGA	GCTAATGGCT	2640
	CTTCCATGGT	GCCGGCCAGA	GGACTTGAAC	CCCCAACCTA	CTGATTACAA	GTCAGTTGCT	2700
	CTACCAATTG	AGCTAGGCCG	GCAATATGTA	AGAATAAATG	GTGGAGAATG	ACGGGTTCGA	2760

	AAACTGCCTG	GCAACGTTCT	ACTCTAGCGG	AACGTAAGTT	CGACTACCAT	CGACGCTAAG	288
	GAGCTTAACT	TCTGTGTTCG	GCATGGGAAC	AGGTGTGACC	TCCTTGCTAT	AGTCACCAGA	294
5	CATATGAATG	TAATTTATAC	ATTCAAAACT	AGATAGTAAG	TAAAAGEGNA	TTTTgctCGC	300
	AAAACATTTA	TTTTGATTAA	GTCTTCGATC	GATTAGTATT	CGTCAGCTCC	aCATGTCACC	306
	ATGCTTCCAC	CTCGAACCTA	TTAACCTCAT	CATCTTTGAG	GGATCTTATA	ACCGAAGTTG	312
10	GGAAATCTCA	TCTTGAGGGG	GGCTTCATGC	TTnAgGATtT	TCAGCACTTA	TCCCGTCCAC	318
	ACATAGCTAC	CCAGCTTATG	CnTTGGCACG	ACAACTGGTA	CACCAGAGGT	ATGTCCATCC	324
15	CGGTCCTCTC	GTACTAAGGA	CAGCTCCTCT	CAAATTTCCT	ACGCCCACGA	CGGATAGGGA	330
	CCGAACTTCT	aCGACGTTCT	GAACCCAGnC	BTGTACCGCT	TTaATGGGCG	AACAGCCCAA	336
	CCCTTGGGAC	CGACTACAGC	CCCAGGATGC	GATGAGCCGA	CATCGAGGTG	CCAAACCTCC	342
20	CCGTCGATGT	GAACTCTTGG	GGGAGATAAG	CCTGTTATCC	CCGGGGTAGC	TTTTATCCGT	348
	TGAGCGATGG	CCCTTCCATG	CGGAACCACC	GGATCACTAA	GTCCGTCTTT	CGACCCTGCT	3540
	CGACTTGTAG	GTCTCGCAGT	CAAGCTCCCT	TATGCCTTTA	CACTCTATGA	ATGATTTCCA	3600
25	ACCATTCTGA	GGGAACCTTT	GAGCGCCTCC	GTTACCTTTT	AGGAGGCGAC	CGCCCAGTC	3660
	AAACTGCCCG	CCTGACACTG	TCTCCCaCCA	CGATAAGTGG	TGCGGGTTAG	AAAGCCAACA	3720
30	CAGCTAGGGT	AGTATCCCAC	CAGCGCCTCC	ACGTAAGCTA	GCGCTCACGT	TTCAAAGGCT	3780
30	CCTACCTATC	CTGTACAAGC	TGTGCCGAAT	TTCAATATCA	GGCTACAGTA	AAGCTCCACG	3840
	GGGTCTTTCC	GTCCTGTCGC	GGGTAACCTG	CATCTTCACA	GGTACTATGA	TTTCACCGAG	3900
35	TCTCTCGTTG	AGACAGTGCC	CAAATCGTTA	CGCCTTTCGT	GCGGGTCGGA	ACTTACCCGA	3960
	CAAGGAATTT	CGCTACCTTA	GGACCGTTAT	AGTTACGGCC	GCCGTTTACT	GGGGCTTCGA	4020
	TTCGTAGCTT	CGCAGAAnct	Arccactcct	CTTAACCTTC	CAGCACCGGG	CAGGCGTCAg	4080
40	CCCLATACAT	CACCTTACGG	TTTAGCAGAG	ACCIGIGITI	TTGATAAACA	GTCGCTTGGG	4140
	CCTATTCACT	GCGGCTCTTC	TGGGCGTTAA	CCCTAAAGAG	CACCCCTTCT	CCCGAAGTTA	4200
	CGGGGTCATT	TTGCCGAGTT	CCTTAACGAG	AGTTCGCTCG	CTCACCTTAG	AATTCTCATC	4260
45	TTGACTACCT	GTGTCGGTTT	GCGGTACGGG	CACCTATTTT	CTATCTAGAG	GCTTTTCTCG	4320
	GCAGTGTGAA	ATCAACGACT	CGAAGACACA	ATGTCTTCTC	CCCATCACAG	CTCAGCCTTA	4380
50	ACGAGTACCG	GATTTGCCTA	ATACTCAGCC	TTACTGCTTA	GACGTGCAAT	CCAATCGCAC	4440
	GCTTCGCCTA	TCCTACTGCG	TCCCCCCATC	GATTAAAACG	ATTATAGGTG	GTACAGGAAT	4500
	ATTEN ACCORDIN	татесатесе	CTACCCCTCT	CCCCCTCACC	TTROCKCOCC	A COURT A COCCA CO	4560

	TTCGCTACTC	ACACCGGCAT	TCTCACTTCT	AAGCGCTCCA	CATGTCCTTA	CGATCATGCT	4680
	TCAACGCCCT	TAGAACGCTC	TCCTACCATT	GTCCAAAGGA	CAATCCACAG	CTTCGGTAAT	4740
5	ATGTTTAGCC	CCGGTACATT	TTCGGCGCAg	TGTCACTCGA	CTAGTGAGCT	ATTACGCACT	4800
	CTTTAAATGA	TGGCTGCTTC	TAAGCCAACA	TCCTAGTTGT	CTGGGCAACG	CCACATCCTT	4860
	TTCCACTTAA	CATATATTTT	GGGACCTTAG	CTGGTGGTCT	GGGCTGTTTC	CCTTTCGAAC	4920
10	ACGGACCTTA	TCACCCATGT	TCTGACTCCC	AAGTTAAATT	AATTGGCATT	CGGAGTTTGT	4980
	CTGAATTCGG	TAACCCGAGA	GGGCCCCTC	GTCCAAACAG	TGCTCTACCT	CCAATAATCA	5040
15	TCACTTGAGG	CTAGCCCTAA	AGCTATTTCG	GAGAGAACCA	GCTATYTCCA	GGTTCGATTG	5100
	GAATTTCTCC	GCTACCCTCA	GTTCATCCGC	TCACTTTTCA	ACGTAAGTCG	GTTCGGTCCT	5160
	CCATTCAGTG	TTACCTGAAC	TTCAACCTGA	CCAAGGGTAG	ATCACCTGGT	TTCGGGTCTA	5220
20	CGACCAAATA	CTAAACGCCC	TATTCAGACT	CGCTTTCGCT	ACGGCTCCAC	ATTTACTGCT	5280
	TAACCTTGCA	TCAAATCGTA	ACTCGCCGGT	TCATTCTACA	AAAGGCACGC	CATCACCCAT	5340
	TAACGGGCTC	TGACTACTTG	TAAGCACACG	GTTTCAGGTT	CTATTTCACT	CCCCTTCCGG	5400
25	GGTGCTTTTC	ACCTTTCCCT	CACGGTACTG	GTTCACTATC	GGTCACTAGA	GAGTATTTAG	5460
	CCTTAGGAGA	TGGTCCTCCC	AGATTCCGAC	GGAATTTCAC	GTGCTCCGTC	GTACTCAGGA	5520
30	TCCACTCAAG	AGAGACAACA	TTTTCGACTA	CAGGATTATT	ACCTTCTTTG	ATTCATCTTT	5580
00	CCAGATGATT	CGTCTAATGT	CGTCCTTTGT	AACTCCGTAT	AGAGTGTCCT	ACAACCCCAA	5640
	CAAGCAAGCT	TGTTGGTTTG	GGCTCTTCCC	CTTTCGCTCG	CCGCTACTAA	GGGAATCGAA	5700
35	TTTTCTTTCT	CTTCCTCCGG	GTACTAAGAT	GTTTCAGTTC	TCCGGGTGTG	CCTTCTGATA	5760
	TGCTATGTAT	TCACATATCG	ATAACATGAC	ATAACTCATG	CTGGGTTTCC	CCATTCGGAA	5820
	ATCTCTGGAT	CAAAGCTTAC	TTACAGCTCC	CCAAAGCATA	TCGTCGTTAG	TAACGTCCTT	5880
40	CATCGGCTTC	TAGTGCCAAG	GCATCCACCG	TGCGCCCTTA	ATAACTTAAT	CTATGTTTCC	5940
	ATCCTACAGG	AAACGCGTTA	TTAATCTTGT	gaGTGTTCTT	TCGAACACTA	GCGATTATTT	6000
	CTTATGAATT	CAAGCTTATT	TAAAACTCTT	TATTCACTCG	GTTTTGCTTG	GTAAAATCTA	6060
45	TATTTTACTT	ACTTATCTAG	TTTTCAATGT	ACAATTTCTT	TTTAGTCAAG	CGCTCGCATA	6120
	AGCAATATCA	CTTTAACCAA	AAAATATTTG	AATGTTAAAT	AAACATTCAA	AACTGAATAC	6180
50	AATATGTCAC	ATTATTCCGC	ATCTTCTGAA	GAAGATGTTC	CGAATATATC	CTTAGAAAGG	6240
	AGGTGATCCA	GCCGCACCTT	CCGATACGGC	TACCTTGTTA	CGACTTCACC	CCAATCATTT	6300
	GTCCCACCTT	CGACGGCTAG	CTCCTAAAAG	GTTACTCCAC	CGGCTTCGGG	TGTTACAAAC	6360

	ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT TGCAGACTAC AATCCGAACT	6480
	GAGAACAACT TTATGGGATT TGCTTGACCT CGCGGGTTCG CTKGCCTTTG TAATGTCCAA	6540
5	TGTAGCACGT GTGTAGCCAA ATCCATAAGG GGCATTATGA TTTGACGCAT C	6591
	(2) INFORMATION FOR SEQ ID NO: 3115:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3115:	
	GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
20	GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
	TGTAATTGTT TGTGTTTACG TATTTCTGGT GTAAGTTCCG TGAAACCAAT GTCTATATTC	180
	CCATTAATAC GCTATTATAA TGTGTCAGGT CCAATAAGCC CCGGATGACA TGTGTATCCA	240
25	TTTGGAAATG GAACCGTTGG GAAAGTGGGA ATAACATGGG GGAACGTCAN TCCCCNCCAA	300
	GCCCATHGAG GTACCTTTAA TTTTA	325
30	(2) INFORMATION FOR SEQ ID NO: 3116:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3116:	
40	CCGnTTGAGT TCGGTGGCGA CATGATTGAT TTTGTAAGTA AGTATGATGC AACATGGGCT	60
	GNTTTACCTA CTAAATTTGA GGCGGGTACT CCATTAATTG CTCAAGCATT GGGCTTGTCA	120
45	GAAGCTATTC GCTATTTAGA ACGCATAGGT TTTGATGCAA TTCATAAATA TGAACAAGAA	180
	TTAACGATAT ATGCTTATGA GCAAATGTCT G	211
	(2) INFORMATION FOR SEQ ID NO: 3117:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3117:	
	AACGTnTTTT GAAATGATTG CGGCGATGTT GGCGACAGTT AAAGTAGGTG GCATCTTATA	60
6	TACCTATCGA TATTGATTTT CCGAATAAAC GACAAGGTGC AATTTTGGAG GATGCTAAAG	120
	TAACTGCAGT CATGTCTTAC GGCGTTGNAA TTGAAACGAC ATTACCAGTC ATTCAATTGG	180
10	AAAATGCTAA AGGCTTTGTT GAATCAAAGG	210
10	(2) INFORMATION FOR SEQ ID NO: 3118:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3118:	
	TTAATTGATC CTAGCTTGGT TTGCCTCTGT CACTTTATCA TTGATATTTT GGACAGTTGG	60
-	GTTGCCATTC AACACTTGAT TAATTTCAGT TAACTTTTGA CGCGCTGCTT GTAATTTTTG	120
25	GGTGTACGCA TTTAACGAAC GGnCGTCATA CCTGTTGTAT CCGTTGGTTG ATTAATGCTT	180
	GTTCTAAATT GCGTTTCCAA GTTTNAAGCG GCGCTTATCT GGTGT	225
30	(2) INFORMATION FOR SEQ ID NO: 3119:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(w.) analytica programmen and the second	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3119:	
40	CCAACATGAT GCTAGTTTGA TTAAGTTTCT TCTAAACAGA CTTCAAACGG CATGGTTTAG CATATCCTAT TAAGGTTGAA TCGCGTTAAC AGCACATAGG AAATGCTGTT AGGCGATGCA	60
	GAGTGCGATT AGGCAGCTAC TGGAAAATTA TTGTTTGATT TGCCAGTTAT TATAAACTGT	120
45	GTGTGTTGAT GnCGAnCACA ACCCCTCCGA ACACGCTTAA TG	180 222
	(2) INFORMATION FOR SEQ ID NO: 3120:	222
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3120:	
	CGGCGATTAT ATTAAAAAGC CAATTACAGA ATGTAGTGGT AATGAAATAT GCCAAGAATG	60
5	GCTGTATCAC TTAGGTGTAT CAACTGACAA AATTGAAGAC TTAGCAAAAC ATGCATCTAA	120
	LACGATTCCT GTTTATATGC CATATATCAC ATCTTATTTC ATGGACGCGT GCTATCGGCG	180
	NACAGACCTT TTAGTCGTGC CCGGCATGCA ATCTNCAGGA ACTTAGGCAT TTATTGGTGA	240
10	ACTTTG	246
	(2) INFORMATION FOR SEQ ID NO: 3121:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3121:	
	CAAATACCTT CTCAACnTTG TACTTTTTGC CTAATTGAGC TGCACGAATT GCTGCAACGT	60
_. 25	ATCCACCAGG ACCTGCTCCG ATTACTATAG ATCTGTTTCA ATTGGGAAAT CTCCAACTAC	120
	CATGTTTTAC CCCTCCATTA ATAATAATTC TGGATTATTT AATAAACGTT TAATGTGATT	180
30	CATTGCATTT TGGCCAGTTG CACCATCAAT TTGTCTGTGG TCAAAGCTTA ATGAKrtGCt	240
	AATACTGGTG CTGCAACAAT TTCTCCATCT TTAACGATAG GTTTTTGAGC AATACGGCCA	300
	ATTCCTAAGA TTGCTACTTC TGGGGTGATT GATAACTGGA GTGAACCATT GTCCACCAGC	360
35	TGAACCGATA TTACTGATTG TGCATnnGCA CCTTnCATT	399
	(2) INFORMATION FOR SEQ ID NO: 3122:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3122:	
	CAGACAAACC TTGAATTATT CTACCTATAA TTAAAAATGC TGGCAAAGGT GTAATGATGA	60
50	TGAGTAATGA ACCTACAACA TTTAATATCA ATCCTACATA AGTAATTTTG ACGCGACCAA	. 120
	ATTTATCAGC AACATCACCA GCACCTACGT AAACCAACCA GCCAATAAGG CAGATAAGCT	180
	AACAGCGTAT TATCGTTCCC ACGTCACTAC TATATGTGGA TGTATGGGAC ACAGTTTACC	240
55		

	G	301
	(2) INFORMATION FOR SEQ ID NO: 3123:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3123:	
15	GGAGCAAATT TATCATCTGC AACTAGACAC AACATCACTG TTATTAGTAC CGGGTTATAT	60
	AGTAGCAGTC ATTGTTGGTG CACTAAGTGG TAAAATCGGC GAATATCTGA ATTCAAAACC	120
	AGCGATTATC ACAGCAATTA TTTAATAGCA CTGAGCTTGA TTTACCTGCA TTGCAGTAGG	180
20	TAATCACATT CAATCTCGTC ATTCTATGAT ATCTTGCAGT AGCTTGCTTA ATGATGCACT	240
	TACTACGAGC ATAAACATGT CTATATGCAG GTGCATGTTA TATTATATAT GGCGACGAGA	300
	TCGTnGGCCn ACGTTAACTA ATTCnGCATG TCTAGCCTCG AATTATATAG TAGGAGCGTA	360
25	GTACGCCAAC TGCCACGA	378
	(2) INFORMATION FOR SEQ ID NO: 3124:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3124:	
	TATTGCAAGA AATGAACTGC TGATTTTTAT AGTTTTAGTG GTCATAAAAT GCTTGGACCA	60
40	ACAGGTATTG GCGTATTATT TGGTAAACGT GAGTTACTAC AAAAAATGGA ACCGATTGAG	120
	TTCGGTGGCG ACATGATTGA TTTTGTAAGT AAGTATGATG CAACATGGGn CTGATTTACC	180
	TACTAAATTT GCAGGTCGGG TTACTCCCAT TGAATTGGCT CCAAGCCAAT TGGGGCTTGG	240
45	Chaggaagcc T	251
	(2) INFORMATION FOR SEQ ID NO: 3125:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3125:	
	CGGTTAAGTA ATACAGGATG TTCTCTAATT ACTTCTTCCA ATACGTCCCA AACTTCATCA	60
5	TCCATACGTT CGATTTTACT CTTCGCATTT TTAATGTTAG TTGCAATTTC ACGTTGAACT	120
	AATTCTTTCA TTACGAATGG TTTAAATAGT TCAAGTGCCA TTTCTTTTGG TAAACCACAT	180
10	TGGTACCATT TCCANGCTTG GACCCNACGG CAATTACCTG AACGGTCCCG GAA	233
10	(2) INFORMATION FOR SEQ ID NO: 3126:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3126:	
	AATAGATTCC CGGGATTCAA AAGCATGGAT GTTGTACCTT GTTGTACTCC ATTGGCAATG	60
	TACTACCTGA TGTCAAGATG AATTATCCAT CACTTTGTTG ACGTGCTTTA TTTTACAGCA	120
25	TCAATTTGAT CCAATCGAAA TACCAGATAA CTTAGACTGT GTCCCAGTAA AATAACGATC	180
	AATCACATCA TGAGACAAGC CAATCGCTTC AAATATTTGT GCCCCTTGAT AACTTTGCAC	240
30	TGTCGAAATT CCCATCTTAG CCATTACTTT AATGACACCT TCTGACAATA CATCCGTATA	300
	TGTCLTAACA TTATCGACAA CGGTGCCTTG TAACCCTTCT GTCAATGTCA GTTGTTCAAC	360
	TGTACGTTGC GCTAGGTATG GCACAATTGA TTCGCGCCAT ATGCGAGTAA ACA	413
35	(2) INFORMATION FOR SEQ ID NO: 3127:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3127:	
45	GTCGTAAATA CTGAACAAAA ATCACGGCAT ACTGTGCAAA TTTnTGAAGA AGCTCAAAAA	60
	CTATTACAAG CACATCATGC GATTGTAGAA GGATATATCG AATCAGCTTT AGAGCGTGCG	120
50	TANATCATCT TCTACATACA TAGGTAATTT TATGGCGATT CCTCATGGAG CATCCTGTAA	180
	AAAGTTTTAC AATCACATGT GCTTATTTT	209
	(2) INFORMATION FOR SEQ ID NO: 3128:	

5	(A) LENGTH: 204 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3128:	
10	TAAATTAATG GAGTTTGGTA CACGTCGTCG CAAGAAATTG ATGCAGTGGG GCGCTAGAGC	60
	TGCTTACATC GGGGGCTTTG ATTCTACAAG TAATGTTAGG GCGGGGAAAT TATTTGGTAT	120
	ACCTGTGTCT GGTACACATG CACATGCATT TGTCCAAACT TATGGAGACC AATATGTTTG	180
15	CCTTCnAAAA ATATGCTGAA AGnC	204
	(2) INFORMATION FOR SEQ ID NO: 3129:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3129:	
	GAAATACCAT TAATATAATA GTCGGTAAAT TAAGAAACGT GGTGCGCGAT TCACAACAGA	60
30	AATCTTAACT TATCGAAGTA TCCTGTTTTC TCTGCAACAC CAATACCAAT CATCACTGCT	120
	AGTACTAAGC CTAATGCGGG AACTCTGAGA AATTTTTAAT CGTATTCTTC TTATCATCGT	180
	AAATCCATCT GGCTATTATA TTTTAATATA ANGGTTTGAG CTACCGGATG CTAACGNAC	239
35	(2) INFORMATION FOR SEQ ID NO: 3130:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3130:	
	ATCACAATAA ACATTITAAA ATTCTTGTTA TCATAATCAT TAAAAGGTAT TAACCTTAAT	60
	AATATATTCT CTnGTCTCAA CCTTAATCGT ATACTTCAGA CGTCTGTTTG TAGACAATAA	120
60	AGTCATTCAC GTCTTCATAT GTCATCANAT GTTTATCATG ATATGATGAT ATATAATCGG	180
	TATATACTGT AGATATTACA CATAAGAGAG GATATAATAT GAAAAGGTCA TTAAGATGTG	240
	CTGAGAGCTG TGTATCAGT	259
<i>55</i>		

TGTGCCTG TGTGCATT 15 CCATGGTA CTTGTnnA (2) INPO	(A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
TGTGCATTO 15 CCATGGTA CTTGTANA (2) INPO	.) SEQUENCE DESCRIPTION: SEQ ID NO: 3131:	
15 CCATGGTA CTTGTnnA (2) INFO	SCC ATTTTGCAAT ATCTTCATCT TCACGTGGTA ATGCACAAAA ATGTTTACCA	60
CTTGTnnA' (2) INPO	CA CAACTTCAAA AATATGTTGA CATGTGATGT TACTTGATCA TCACGCGTTG	120
(2) INFO	TG CAAGTGCTGC GATAAATCTG CGGCACCTTC GACTATCATG CTAACCTTCG	180
	TA TCGCAATGGC ATACCCCTTC AACATCTTCT ATCATGG	227
20 (i)	RMATION FOR SEQ ID NO: 3132:	
	SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	•••	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3132:	
ATCGCAGT	GA TGTNATCATC TGCTGCTGTA GCNTAGCAGG TTCAATTTCA TTTATCGGAT	60
30 TAATGGGT	CC GCATATTGCC AAACGTATCG TTGGACCACG TCACCAGTTG TATTAACCAA	120
TTGCCATT	TT AGTAGGGGCA TGTATACTTG TAATAGCTGA TACAATTGGC CAAAATTGTA	180
TTACAACC	AG GTGGGGTTCC AGC	203
(2) INFO	RMATION FOR SEQ ID NO: 3133:	
(i) 40	SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3133:	
AGCATTTA	GT TTAGCGGCAG TAGCTGCAGA TGCACCGGTA GCTGGCACAG ATATTACGAA	60
TCAnTTGA	CG AATGTCACAG TTGGTATTGA CTCTGGTACG ACTGTGTATC CGGACCAAGC	120
50 AGGTTATG	TC AAACTGAATT ATGGTTTTCn AGTGCTAATT CTGCTGTTAA GGTGACACAT	180
TCAAAATA		201

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3134:	
10	CATTIGTAAC TGTTATIGTT TATAACTICT GTGTGAAGCG CAATATTACA ATTAAAATGC	60
	CGAAAGAGGT ACCGNCGAAT ATTTCACAAG TATTTAGGAC TTAATTCCAT TTTCAGCGGT	120
15	AATCATCATT CTTTATGCAT TAGGATTTnG TCAATCGCAA CCAGCTTTAA ATCAAAATGT	180
	AGCGGAGGTA TTTTAAAATT ATTCGGT	207
	(2) INFORMATION FOR SEQ ID NO: 3135:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3135:	
e No.	AACACCTTTA GGTCGTGCAG GTCAACCTGT TGAGTTATGT GGTACTTATG TGCTATTAGC	60
30	GTCAGAAGGA ATCAAGTTAT ACAACCGGAC AAGTnTTCGG TGTTAGCGGT GGAGTGCAAn	120
	TAGGTTAGGT TTGTATGAGC TTTTAATTGA GCACCATAAT GTTAATTTAG TTACTTCAAT	180
35	CCATTAAATT AAATGAATTG GTG	203
	(2) INFORMATION FOR SEQ ID NO: 3136:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3136:	
	CACATCCAAT GCANTCTACT AAATCAGACA CACCACAATC TCCAACCATA ANACAAGCAC	60
6 0	AAACAGATAT GACTCCTAAA TATGAGGTTT AAGAGCGTAT TATACAAAAC CGAGTTTTGA	120
	ATTTGAAAGC AGTTTGGATT TATGCTCAAA CCATGGACGA CGGTTAGGTT TATGATGTTA	180
	TTCCAATAGG TTCACTATAA ATAGCTTAGT T	211

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: lin ar	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3137:	
	ATTGGGAAAT GTTCCCCCAC CACCTACAAT TTGTGAATAC AAACAATACG TATTGCAATG	60
	GACTITACCT GGGCTTACCA AGTGAATGTA TACGTCACGT ATGATACGAT TGTAGTTGnA	120
15	AAATAATGCG AACAGAAAAT CGTTATAAGT ACAAATAATA CAGGTGACTC AACTCCTGCT	180
	TTTAGATTAA CAAATCTCCA ACCGATACAA TGAGTGCTTG CAACATACCA AGCATTATAA	240
	AGAATCCTGC CTTACCTAAG	260
20	(2) INFORMATION FOR SEQ ID NO: 3138:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3138:	,
	CATAAGCAAT TAATGACTIC GTTAATTGCG AAAGTGTATC TTTTTGATTA TCATTCGCTT	60
	TTGCATCTTC AAGCTTTCTC ACATCTGATT TGACAGCATT ACTTTCACTA TTATCTTCAA	120
35	GCGATAATTT CTTAACTGCA CTTACCACTT GCTCAATTGC TTCTGCnTAT TGTCATTCGA	. 180
	TATCGGAGTA GTAGGAAGTG CNGAATTCGG CA	212
40	(2) INFORMATION FOR SEQ ID NO: 3139: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3139:	
	TATTGGTTTT TATGCGAATA TGGATAATAA AAGGTCTCAC GACATCATTG ATAAATCGCT	60
50	TGANATGTTG CGACGCTTAG ATCACAGGGG CGGGGTCGGC GCAGATGGCA TCACTGGTGA	120
	TGGCGCAGGT ATTATGACTG AAATACCTTT TGCATTTTTC AAACAACATG TAACGGAGGA	180

	GCACCTGTTA GAAAAGAAGG GAAATTACCT CGTGAAGTCA TTCGTTATGA GTATGACCTA	300
	GAATATGGTA CAAATGTTTT AACAATGGCA CAAAGATGCA ATTGAAACCA GGTnCAACGT	360
5	GTGTTAnTAC AGG	373
	(2) INFORMATION FOR SEQ ID NO: 3140:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3140:	
	AGCCTTATAA TAAAGTGCCT TTCATAGCAA TAAGTTGTGT CCATTGACCT ATTACATTTT	60
20	TCGTTTTGTA CATTAAATAT AAGAAATACG GTGCACCAAT AATTGCTACG ACAATACCTG	120
	CTGGAACCCC CACCTGGTTG TAATACCATT TTGGCCATTT GTATCAGCTA TAACCAAGTA	180
	ACCNTGCCCC AACTAAAATG GCATTGGGTA AAACCACNTG	220
25	(2) INFORMATION FOR SEQ ID NO: 3141:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3141:	
	GAGGAGCAGC ACAACCAAAT ACACAACCAG CTGGACAAGG TGATCAAGCT GATCCGAATA	60
	ACGCTGCACA ACACAACCTG GAAATCAAGC AACACCGGCA AACCAAGCAG GTCAAGGNAA	120
40	TAACCAAGCA ACACCTAATA ATAATGCAAC ACCGGCAAAT CAAACACAGC CAGCGAT	177
	(2) INFORMATION FOR SEQ ID NO: 3142:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(ad) engunyan pagantaman are to we are	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3142:	
	CTTTTTTAGC ATTTGGTTTA ACAACCNGGT GTTGCAGTAT CCCCACTTAA GGTCTGTATA	60

	ATTICATITY TATGITCCTC GATAACTIGT ATTGCTGCTT GTTTTCCTCC ATCTGTCAAT	180
	CCATCATTTG ATTGAGAGAA nCAG	204
5	(2) INFORMATION FOR SEQ ID NO: 3143:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3143:	
	GTGATGCCAT ATAAATTGGC AATAATGGCA CAAGTACTGT CAGTCCAGCA ATCGCTATAA	60
	ACTGACTGAG CCATAAAATG CGAAAGTTAC TGCGCCATAT AGACTGATTA ATCATATGTC	120
20 -	ACCATTGGAT TTGGTACGGT AGTTAAACCT GAAGGCATAC TACCCTCCAC CCACTTATTC	180
	AACGTTGGAT NATAGGCAAT GGGTAATTAA AAATTTTGTT TTTGAAATGG GCCCACGGGC	240
	TTGTTTTAAT CAAAATTAAA AAATTGTGGT nCTTGGACC	279
25	(2) INFORMATION FOR SEQ ID NO: 3144:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 514 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3144:	
	TGACTTAATC AAAGCATTTG ATCAAAACAC CAGAATACCA TTATTCTTTA ATATGTTGTA	60
	CAGTAAACTC THTATTATTT GTTGCTGTTG GATCCATTGT TCGTCTTTCA ACAAAAACHT	120
40	GACCCAGAAT GAAGTCCGAT AGAGTCAACA AAGCLATAGT ATTTGTAACC ATCTTTTAGT	180
	TGATAAATGC CACGCGCATC TGTTATTGCG TCATTTTTAG GTACAAATTG AATTTKGAGA	240
	TTTCTCaCaT TATCAGGTAC TTTAAATAAA CGCAAAGTTG GACCGCCTTC AACAGTCTTT	300
45	TCAGCAATCG TATCATTAGT ATCAGCATTT TTGATAATAA CATTTGTTGC GCCTTGACCG	360
	TITTTAGTAG TCATTGTATT AAATCAAGGT TAATTCAGAA TTCGGATTTA CTGTTAATGC	420
50	TTTCTCGATA CCATTAAAAT CGCCATGGTC ATTCGTATCA GTTCCAGTAT ACGGCCTAAT	480
	GCAATACATT TGCCTGTGCn TGATAGTnCT TATT	514
	(2) INFORMATION FOR SEQ ID NO: 3145:	

5	(A) LENGTH: 302 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3145:	
10	ATTCAGACTT TGCATGTGGA ATGGCCACGT TCATGCCAAT AGCTGTCGTA CTCCCATTTC	60
	ACGTTCTAGT ATTGCATTTT TTAAATGCGA TGTGTGCTCT ACATAACGGC AAATTTTAAG	120
	TTTTATGAAT CAACATATCC AATGGCTTCG GTTTCGAGAC ATGTCCGTGG ATTCAGTAAT	180
15	TAACCATAGT TIGGTIGGAT CCAAAACCAT GAGNAGGGIT TAATGGAGGA TGTNGAATGG	240
	TTCnCCGGTG GTTAATCCTA CATGGTCCAC CCTCCTGGTA ACCATGGTGG TGGTAATAAC	300
	cc	302
20	(2) INFORMATION FOR SEQ ID NO: 3146:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3146:	
	CAGGAATAGG ATCATTTGCA TCCATAGCTT CACTTATTTT TTCAGAAGCT AGCGTACAAT	. 60
	CATTTAAATC TACGCCACCT TCTTTATCAA TAGAAGATTCT AAGAAAATGA TCTCTACCCT	120
35	CTTTGACCAT ATTCAACGTC TACAAGTTCC AAAATTCAAG GTCTTCCCAT AATTGGGTTT	180
	AACCAATCCA CTTTCTACCT GGTTTCCGGT AAATTTTTAC CTCCATACCA GGGnCCTCCC	240
	CCTTTTTTGG GCCAAAATAG GAAAAANGAG GCGGGGGAAA TCCTCCCCCC AATTCCTTTC	300
40	CTGGCCCTGG AGGTTTCCAC CTAAATTTTT TT	332
	(2) INFORMATION FOR SEQ ID NO: 3147:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3147:	_
	GAGAGTGGTT AACAAGCAAA TAGAAATAAT TAAAAATGCA GATGCAGATG CATCGGCGAA	60
6 5		

	CHCCAACAAA TGCAGAAGTT GCTGAATTCC AAATGTAACG ATACCTGCCC ATGAGCGATG	180
	TGCTCAGAAT GATCAGAGCT AATG	204
5	(2) INFORMATION FOR SEQ ID NO: 3148:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3148:	
	CAACCGGGAC AGGTGGGGTT ATTGGACGTT ATTTTTGGCC TTTGGATTTT AAGATATTGG	60
	TCGAAAAGAG ATTACATAAA ATTGTGGCCA AATGCGGATT GCATATTATT GTAACGCCGn	120
20	CTATTGCATT GTTGATTGTT AGGNCTATTA ACTATCTGGA TCTGTATGCC ATTAGCCAGG	180
	TITTGTTTCA GACAGTTTAG TTTCAGTAGT TAACGGA	217
	(2) INFORMATION FOR SEQ ID NO: 3149:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3149:	
35	CTATTATTAT ATTCCGCGGT GTACGTATAT GTGCTACGTT ATCTTCGTTA ATTGTACCGA	60
	TTATGGCTAT CATTTACATT GGTATGGTTT TAGTAATATT GCTATTTAAT TTAGATCAAA	120
	TTGTTCCTAT GATAGGTCAC GATTATTAAN AGTGCATTTG GTCATCGAAC AAGT	174
40	(2) INFORMATION FOR SEQ ID NO: 3150:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 181 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3150:	
50	GGGACCGAAT TGACTTCAGC ATTACCAGCA AATTGATTAA TnTTGTGGGC TGGTATTGGC	60
	TCTGGCGGTA CCATTTACAG GTACCGCACG TTATTAAAGC AACATCACGG GCAATGTTAT	120

	A	181
	(2) INFORMATION FOR SEQ ID NO: 3151:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3151:	
15	GTTTTAATTG AGCGACATAC TCTTCTGTTA GCTCTGCTAC TTTTTAAAAT AGAGCGATTG	60
	ACATCAAACA TAACTGCTAA ACGCTCAACG TCTGCCTTCG TAATGGCTTT TGTAGAAATT	120
	CTAACTAAAT AATTTCGAAT GCTATCATTG GTTGTnTCAA CAGCTTGATG CT	172
20	(2) INFORMATION FOR SEQ ID NO: 3152:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3152:	
30	ATGGACGTTG AGACATTTAT AAGCGATATA GATTTCGCAT GTTGCATTTA TTAAACCTAA	60
	TAATGGTAAA CGACAAGTGT GACTGTTACT GGACTTTAAT GAAGGTAGTA ATCAGAATGG	120
35	AAATCAACCA AAAGTAGGTA TTTGAATnTT GGGAATAATG AGACATAGCG AGAGTGTATA	180
	TGCAATACGA CAGTACTnTA AATTAAGAG	209
	(2) INFORMATION FOR SEQ ID NO: 3153:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3153:	
	TTCTCACAAA GCGCTCAGTT GAAGTAAATC CACCTGGACA ATCCAAATGT ACCTGCTTCA	60
50	TTGCCTAAAG GTTCAATCGT TAMACCTTCC AATAAATTTG CTGTTGCTGG ATAAGGAGAA	120
	ATTATTGGTA TATTGTCTTA AATTACTATG ATGCCAATTT AAGGTCTGGA TGAT	174

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3154:	
	GGATCACATC GTTCATTTAC ACAATCTATT AATATTCAAT GGCACAATAT AGTGTTTATG	6
	GCATTACGGA TATGATTTAG TAGCHCACCA TTATTAACCG ATCTCTATCT GTTAAAAGGA	120
15	ACTTAAGAGC AATGTTTGCG CATCATCATT TTATGTTGCG TCTTTGCACG AGTTTTGCGA	180
	AACTITACAA TATTTGTTGC GGATGATTAT TTAACTTTTG GAGAATGTTG ATGGCACAGT	240
	CCACTATANC AATCAGTATC GCAATGG	261
20	(2) INFORMATION FOR SEQ ID NO: 3155:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 490 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3155:	
30	AATTAAAAAT CAAGCAACTG CTGCAAAAAT GCAAGATCAA ACTGTTCCTC AAGAAGCAAA	60
	TTCTCAAGTA GATAATAAAA CAACGAATGA TGCTAATAGC ATAGCAACAA ACAGTGAGCT	120
<i>35</i> ·	TAAAAATTCT CAAACATTAG ATTTACCACA ATCATCACCA CAAACGATTT CCAATGCGCA	180
	AGGAACTAGT AAACCAAGTG TTAGAACGAG AGCTGTACGT GTTLAGCTGT TGCTGAACCG	240
	GTAGTAAATG CTGCTGATGC TAAAGGTACA AATGTAAATG ATAAAGTTAC GGCAAGTAAT	300
40	TTCAAGTTAG AAAAGACTAC ATTTGACCCT AATCAAAGTG GTAACACATT TATGGCGGCA	360
	AATTTTACAG TGACAGATAA gTGAAAYCAG GGGATTATTT TmCacGAgTT ACCAGATatT	420
	TACTGGTAAT GGAGACGTGG GATTATTCTA ATTCANATAA TACGATGCCA ATTGCAGACA	480
45	TTAAAAGTAC	490
	(2) INFORMATION FOR SEQ ID NO: 3156:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3156:	
	CCTTCAGTAC CTTGTAATAG TTAHTTAAAT GTTCCGATCA TCGTGTAGTG TGATTCATCA	60
5	TACCGGCCTT TTCAATTGAA TACGATCTAA ACCGTTTCGT CAGGTGCTAG TAAGTTACCT	. 120
	TCGCCACCTA AATAAGAAGT TCACTCGTTA CGATTTTTTC AGATAGCATC ATTGGTGGAT	180
	TCGTAACTTG TGCAACAGCT GTTTAAGTAT TAATAGTGAT TCGGTCGTCT TCACATGCAT	240
10	TGGCGCACAA TCCnTGCACC GT	262
	(2) INFORMATION FOR SEQ ID NO: 3157:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3157:	
	ATGGTAAAAA TTGCACTATC TGCTCGGGAA ACGATTTTGC ATAACCTATT GTTAATTTTT	60
25	TACCTGTTGA TTTAGCTGTA TCTGnCCATT TTTTGAGCTT CTGCTGTCGT TTTAGCCATT	120
	GGGTTTTCAC ACATCACATG TTTACCAGCA TGCAACCCTG GCTACAGTAA	170
30	(2) INFORMATION FOR SEQ ID NO: 3158:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3158:	
40	CCAGGCAGAG GAGCAGCACA CCAATACACA ACCAGCTGGA CAAGTGATCA GCTGATCCGA	60
	ATAACGTGCA CAAGACAACC TGGAATCAAG CAACACCGGC AACCAAGCAG GTCAAGGAAT	120
	ACCAAGCAAC ACTAATATAA TGCACACCGG CAAATCAACA CAGCAGCGAA TGTCCAGCAG	180
45	CAGCGAACCA GCAGCACTGT AGCAGCAACG ACAACTCAGn CCAATGTAGC ATATGGTGAG	240
	GCAGTTTATA GACATACATT GTGnCCTGCA TTCACAGTGG ATAGCAGGTC CACTGTACTG	300
50	TACAGTAAGT An	312
	(2) INFORMATION FOR SEQ ID NO: 3159:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 171 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3159:	
	AATCACATCA AAAACTTCAA TTGTTTACGT TGGCAACTAA CTTTATGTTA GAACGCACAC	60
10	AATATCTAAT GTTTAAAATC TATCGTCGCA AGATGCTTCC TGnTAATTAT CAGTGCCATT	120
,,,	TTCGATTGGG TTATACAATC TAGTAATCGC ATGATAATTT AATGCTACAA G	171
	(2) INFORMATION FOR SEQ ID NO: 3160:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3160:	•
	CTTGTTCATT TAATCCATAT AGTATACGAC GATGTACTGG TTTTAAACCG TCACGAACAT	60
25	CTGGCAATGC ACGAGCAACG ATAACACTCA TCGCATAATC TAAAAAATGAT TCACGCATTT	120
	CACTGGTAAT ATTTCGTTCA TTAATCnTGA TTGAGGGAAT TCCGCCCATC CAGANGTCCC	180
30	CCCTCCAAAG TTCAGTTCCA CAGGGGCTAG A	211
	(2) INFORMATION FOR SEQ ID NO: 3161:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3161:	
	GCACAGGTAG CGGTAGTGGC GGTCGTATGA TGACTTTGGT AATCTAAAGC AAAATGTACG	60
	ATAATAATAA ACGTCGTTTC GTTTCTCTGA TGTAGCAGGG GCAGTGAAGA AACAAGATTA	120
45	TIGAATIGIT GATITCITGA AGATATAAAA ATICAAGAAT GGGTCTAGGA TICCTAAGGT	180
	GTCTTCTTTT GGGCTCAGTA CGTAAACATA TTGTAGAGCG TGCAGTGAGT GGCGCACCAT	240
	CTCTTTTGGG TCAGNTTTGG AGTTTTGTTT GTCGGCTGTC GGATTNTCGT ATGTAGGAAC	300
50	GGCTGTTCAC TTnCGTGGAT G	321
	(2) INFORMATION FOR SEQ ID NO: 3162:	

5	(A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3162:	
10	AACATTTGAG CAATATCAAG AAACATTAGA GTATATTTTA TCCCATCATG TAACTCGTAA	60
	TACAGCAATT ATTGCTTTGG GTGGTGGTGC ACTGGTGATT TTGCTGGGTT TATTGCGGCG	120
	ACACTTTAC GAGGCGTGCA CTTTATACAA GTGCCANCG	159
15	(2) INFORMATION FOR SEQ ID NO: 3163:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3163:	
25	GTCAGTTATG GCAAGTGCAT CAACATTTTC AGACACAGAC AAGTCTTACG GCATCTTCTA	60
	TTTTTAAGCT TGAAATTTAA CAAATCATAA GCCGTATGAA TATTTAAATA TGCCACCATG	120
	ATTGAATGGC CCCTTTCTAT TAGTTANGTT TTGTGCG	157
30	(2) INFORMATION FOR SEQ ID NO: 3164:	:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3164:	
	TATAAAAATA TAACGCGGAC AAAAAAGTGA GTTATTACTG ACAAAGTATn TGAGATTGTA	60
	ACAGGATATA TGAAGCAATA TCAGTTGATC CAACTGTCAT AGGTATTTCA TCAGCAGGNG	120
45	TTGTTGATGA ACAAAAAGCG AAATTGTATA GCAGGCCAAC ATTCCGATTA TAAAGGTATA	180
	ATTITAAGGA TTATTAAAAT CATGTCTCTT ATGTCA	216
	(2) INFORMATION FOR SEQ ID NO: 3165:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3165:	
5	AGAAACACTT CTATTGAATC GTCTTACTGC TGTTCTCTAT TTATAACACT TCGTATTGAA	60
	TGAATTCATT ATGCCTATTT GACACATTAT TGAAGTTTTC CTAATGCCTG GATCCTTTAT	120
	ACGITACGGC TICGIGCTAT GITTIGGIAC ATAAAGCITI GACATAICGA nATIC	179
10	(2) INFORMATION FOR SEQ ID NO: 3166:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3166:	
	ACTGTTACAA CAAATTAAAA ATACAACAAG CGAGATATAG TTATTGTTGC TGGAnTGTAC	60
	CAAGTAGTAT TCCAAGCGAT GCTATGGCAA ATTGCACAAA TTACAGCACA GACAGGTGCT	120
25	AAATTAGTAG TCGACGCTGA AAAAGAATTG GGCTGAAAGT	160
	(2) INFORMATION FOR SEQ ID NO: 3167:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3167:	
	TGTGGGGGAA ACCTGCACAG CAAAAACTAA AGCTTATCGA TACATCTAAA CATTGTATTA	60
40	TAAAATCAGT GCATCCTAGT CCACTGTCTG CATATAGAGG ATTCTTTGGA TCAAAACCGT	120
	ATTCCAAAGC GAATGCCTAT TTAGCGTCAG TAGGNA	156
	(2) INFORMATION FOR SEQ ID NO: 3168:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3168:	
	the best of a product of the production of the p	

	GIGGCGAGAA ATACCGCAAG CATAAAGATA TCITIGATCC AACITACCAA CAGATCAACG	120
	GAAAAGTACC AGGTAACCAG GAATCAAGAT CCAGACACAG GAAAAGTGAT CGAG	174
5	(2) INFORMATION FOR SEQ ID NO: 3169:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3169:	
	TCAAACGGGG TCAATTTCAA ATGGAAAAAT TATACCGCAT CTTCTCCTGA TAACTACGTG	€0
	ACCTTATCTT CTTTATATTT GCAGACCACG AACATTCAAA CTGCATGCTT GCTCGATTGG	120
20	CAATGTCATA TAACTAGTAA CATGATCATC nCATCAAATT TAGTATGTCA AATGTCCCAA	180
	TCANTAATTT GATCGGTGTT GCTCAATTGA TTA	213
	(2) INFORMATION FOR SEQ ID NO: 3170:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3170:	
35	AAAGCACCTT TTCCTAATGA AAGTTGTGCT ACTGGTATCT GTGTTTGATT TACAAAATCT	60
	TCTAATTCTT GATGGAGGTG AAAACTGTTA ATTTCATGTC CAGTAATGAT GATAGGCTGC	120
	TTCGCTTGAT GCAGTTTAGT TGCTAATAAC TCTATATATG TTGATGCATC CGTATATTTA	180
40	GTTGCCGTCA CTTCAAATGG TGTCGGTATC TCAATTTCAG AGATTGCGAC ATCGATTGGT	240
	AAATGTAAAt GAACTGGGCG TCTTTCGGCG ATTGCTGTAT TAATTAAACG TGGTATTTCG	300
	GTTGTTGCAT TTTCAGGTGT GATATAACCT GTGCACGnTT ATATGTGCAA ACATTTTTCG	360
45	ATAGTCGTCA AATGTACCnn	380
	(2) INFORMATION FOR SEQ ID NO: 3171:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3171:	
	TAGAAGGTAA GAAGGATCCT ATCGGTGCAA TGGGATATGA TGCGCCAATT GCAGTGTTGA	60
5	ACGAGCGACC AGAATCACTA TITAATTACT TTAAACAGCT GTTTGCACAA GTTACGAATC	120
	CACCAATTGA TGCGTATCGT GAAAAAATCG TAACGWGTGA ACTTTCTTAT TTAGGTGGCG	180
10	AAGGTAACTT ACTAGCACCT GACGAAACGG TTTTAGATCG TATTCAATTG AAAAGGCCGG	240
	TATTGAATGA ATCACACTTA GCAGCGATTG ATCAGGAACA TTTTTAAATT AACTTATTTA	300
	TCAACGGTAT ATGAAGGGGG ATTTGGGAAG ATGCGTTAGA AGCATTAGGC CGAGAAGCAG	360
15	TGGAATGCTG TTAAGCAAGG GCGCTCCAAA TTCCTAGTGG T	401
	(2) INFORMATION FOR SEQ ID NO: 3172:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3172:	
	ACATAATTTA AAATAATATT ACATTTGTAA TGGnCACCAA GTAACGTTTC GGTTGCTTGG	60
30	TGTTTTTTGG TATGAATTAC TTTCTGTTAC AAAACAATCT AAAGCGTTCT GTTATGTTTT	120
	ATTAGATTT AATTACAAAC GGAAACTAAA TGTAATAGAA TAAACT	166
	(2) INFORMATION FOR SEQ ID NO: 3173:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3173:	
	ATAATGAGAN TGTTGTACGT TATGGTGGTG GAAGTGCTGA TGGTGATTCA GCAGTAAATC	60
45	CGAAAGACCC AACTCCAGGG ACCGCCGGTT GACCCAGAAC CAAGTCCAGA CCCAGAACCA	120
	GAACCAACGA CCAGATACCA GAACCAAGTA CCAGACCCAG	160
50	(2) INFORMATION FOR SEQ ID NO: 3174:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3174:	
_	CTTTATATAA AGAAGGAATT ACTAAACATA CAGTTAGATT ACTTCATGCA ATCGAATTAG	60
5	AACGTTTGAA TTTAAGCCGT AGATTAGGTT TTGAATTATC AACAGCNAAA GAATCACGTA	120
	TTGAACGGGG GTTATTTAGA ACGTGATAAA GAAGGATG	158
10	(2) INFORMATION FOR SEQ ID NO: 3175:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3175:	
20	TATTTGAAGA TGGCTGTGTA CAAAAATCGG TGTTACGTGA TCATGATACT GTCAGAATTT	60
	ATAAACCATG GCTAACAGCA CATCAGCTTT CATTGCCCNA GTATGTCGTC AGAGAAGATA	120
25	CACCTAATCG CTAATTAATG AGGTTTGGAA ACAT	154
20	(2) INFORMATION FOR SEQ ID NO: 3176:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 472 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3176:	
	AGAAGGTATT TTAGCTCAAT CTCCAGGTCT AAAGGTTGTT ATTCCTTCAG CCCATACGnT	60
	GCGAAAGGTT TATTAATTTC TTCTATTAGA AGTAATGACC CAGTCGTATA CTTAGAGCAT	120
40	ATGAAATTGT ATCGTTCATT CCGTGAAGAA GTACCTGAAG AAGAATATAC AATTGACATT	180
	GGTAAGGCTA ATGTGAAAAA AGAAGGTAAT GACATTTCAA TCATCACATA CGGTGCAATG	240
45	GTTCAAGAAT CAATGAAAGC TGCAGAAGAA CTTGAAAAAG ATGGTTATTC TGTTGAAGTA	300
45	ATTGACTTAC GTACTGTTCA ACCAATCGAT GTTGACACAA TTGTAGCTTC AGTTGAAAAA	360
	CTGGTCGTGC AGTTGTAGTC AAGAAGCACA CGTCAAGCTG GTGTTGGTGC ACAGTTGTAG	420
50	CTGAATTAGT GACGTGCATC CCTTCATTAG AAnnCCTATG GAAGAGTGCA CA	472
	(2) INFORMATION FOR SEQ ID NO: 3177:	

5	(A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3177:	
10	TGAAAGCTGG CGAATACAGT GATTGTCATG ATGCGGATCT AnTTGTCATC TGTGCTGGTG	60
	CTGCACAAAA ACCTGAGAGA AACACGTTTA GATTTAGTAT CTAAAAACTT GAAAATATTC	120
	AAATCAATTG TTGGTGAAGT AATGGCATCA	150
15	(2) INFORMATION FOR SEQ ID NO: 3178:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3178:	
25	TTACTCTATC TIGATTIGAC GAAATACTAT TANGCTAATA TCGATATTIT AAAAACGAGA	60
	TGATGTTCCA AAGCAAGCCA TTTCGATGGA CTGCTAATAT TCTTCAGCCA AACGTATCAT	120
30	TTTACTCGCA TTTGGTGAAA AGAAACGGCT GCTATTACAC ATTTAT	166
•	(2) INFORMATION FOR SEQ ID NO: 3179:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3179:	
	CTTCGACTCT AGAGGATCCC CGCGCTCAAA TTCTAGTGTT AGATGATAGT GGATTAGTTG	60
45	ATAGCAATGG CTTTGCAATG CCGATGTTAC TCGCAATAAG TCATGTGCAT CAATTACTTA	120
45	TTAAAGCAGA TTTACGTATG TCTACAAGTT TANTTCGCTA AATCTGGTGA	170
	(2) INFORMATION FOR SEQ ID NO: 3180:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>55</i>		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3180:	
	AGCTAAGGTT GCCnTGGGCG TTGCCCCAnt TGGTTAGTCC AGGTGGTCGC GGTGGCCATC	60
5	GGTGTATTCG CCAGGTCCTT CAGCCAGGGT TTTTACTATT ATATCCAGTT GTAGCATTCA	120
	TGATTGGGGC GATTCGAGAT AGATTCATCA ATGAAATTAA TTTCTGGATT TTATTCGTTG	180
	GTATTTATTT GGGTATACAT AAGTATGGTA CATGATAGGC AGATATACAA CATTACAACA	240
10	TTCATTCTAC TATGCTGGAA ATAACATGAC AGTGATGACA CTACTATCCC CGTCGCA	297
	(2) INFORMATION FOR SEQ ID NO: 3181:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3181:	
	CACTAGGTAC CCCAAAACGC CAGAGGAACT TGGTTAAATC GCACTTACTT GGTGGCTCCA	60
25	ATCAACTGGT ACTTCATAAC GTTTGGCATC TTCGCCACTT CACCACTATT ACTCTTTCCA	120
	CCTAATTGGT TCATGGCTTG TGCTAACGTT TCATGTGCTT CCGCTGAAAT CGATCCATAA	180
	CTCATCGCCC CTGTATTAAA GCGTTTGACA ATGTCACTTA CCGGTTCAAC TTGGTCGATG	240
30 -	TCAATCGGTG TACATGCTTT AAATTCAAGT AAATGTCTAA TGTGATCTGT TCTATTTTTG	300
	TTnCACCGnT TnCAGAGTAT GCTTTAAATT GCGCCATAGT CCATTTTCT	349
35	(2) INFORMATION FOR SEQ ID NO: 3182:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(with groupings programmer), group No. 3183	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3182: TACCARCACG TACACCITCT AAAATAACTG CATTTGCACC GTnTTAATAC ATCATCCTCG	
45		60
	TTTATAACCG GTGTAAGCAC TAGGGGGTTC AATCACACCT GCTAATACTG CGCCAGCCCT	120
50	ACATGTACAT TTTTACCAGT TGTAGCACG (2) INFORMATION FOR SEQ ID NO: 3183:	149
	2	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3183:	
	GCGGTGCCGG TGTTGCAATT GGCGCAGTGG TGTTGGTAGC ATGTGGTCTT TCAATCAATG	60
10	TTCAATACAC CAGGAGATCC GGAAAAGATG CGTATGAATT TTATGGTAAG TGCACCAGGC	120
	ATTACCACAC CACGCAAnAA CATGCAT	147
	(2) INFORMATION FOR SEQ ID NO: 3184:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3184:	
	CAGCGATATG TTGGCGTTGA AAATCTGCAA TTTGTTCATA ATTCTCTGTT AAAGAACGAC	60
25	TTAAATTGAT AAAAATGGAT ACGATCTCTT GGTAAACAGT GACATTTTCT CAATCGGCGT	120
	ATGATGTTTG TGGCACCGAC CATCGAGAAC ATGAAAATCT CATGTCCCAC GCTAGTCGnC	180
30	(2) INFORMATION FOR SEQ ID NO: 3185:	
<i>3</i> 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3185:	
40	GGTAAATACG TATTAATCAG ATTAAGATCT GGTGAAGTTC GTATGATCTT ATCTACTTGG	60
	CCGTGCTACA ATCGGGnCAA GTTGGTAACC TACAACACGG GTTAGTTAAC GTTGGTAAAG	120
	CCGGCACGTT CAAGATGGGA AAGGTATCCG	150
45	(2) INFORMATION FOR SEQ ID NO: 3186:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GAATTIMAGG TGAATCAGAA GATTAACGCT GTTGCGTCCT AAGCTAACAG ATACTGGTTC	60
	GTCAGTTGTC GTTGAAAAAG CGAATGAACA ATTTAATAAA ACCGTAACTC GAGCATTATT	120
5	AGAGGAAGCT AACCAAAGCA GGTTTA	146
	(2) INFORMATION FOR SEQ ID NO: 3187:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3187:	
	ARATTGGCGA GTATGTTGTT ATTGGGTCAG TACTCTGAAA TTAACAATAG nTACGATTGA	60
20	AAATGGTGTC ATGTATTCAA CAGTCTGTTG TTAATGTATG CTAGTCGTGG TGCGAATACT	120
	AAGGTCGGAC CGTTTGCGCA ATTGAGACCA GGCGCGCAAT TAGGG	165
	(2) INFORMATION FOR SEQ ID NO: 3188:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(b) Toroboot. Tinedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3188:	
	CAGTTTAGTG GAGACGAATC TAAACGAAAC AAAGCGATTG GACGTGCATC AGTTGTACCA	60
35	ACATTCTTTG GTGTAAACGn AACCAATTTT ATTTGGTGCC ACCACTAGTT ATTGGAATCC	120
	TGTGTTCTTT ATTCCATTTG TATTAGCACC AATTGTTAAC GTATGG	166
40	(2) INFORMATION FOR SEQ ID NO: 3189:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.•	,2, 2,2,2,2,3,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3189:	
50	AACCCTTTAT CTAATCCATT TTCAGTTAAG CGATGACCGC CTGCTAAAAT TTGTGCATCT	60
	GATTCTTTTG CTGCATCAAT ATATGATTGA ATTTTATCTA ATTGATCCTT ACCAGTTTGA	120

	127 INFORMATION FOR SEQ ID NO: 3190:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3190:	
	TCCCCCAAAG GGTTTAAGGG GTTAACCCGG GTTTGGGAAA AATTTTTTAA CCCCCCTTAA	60
15	Anticcegg Annaggana ceegggtiti taaraaaaac eeggggtice caaaaattit	120
	TTGGGAAAGG GAAAGGAAAA AAGGGTTAAA AAATTTTTGG GAAAAACCCG GGCCCARAAA	180
	AAAGGGTTTT TTTCCCCTTA AAAAAAATTT AA	212
20	(2) INFORMATION FOR SEQ ID NO: 3191:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3191: CTTCACTGAC TITAGCAATT TCATCACCTT TTGCCCCTAC AACGATAGCT AATGATTTAT	60
	ATTGTAAACT CANATGACCT TGTTGAATAC CTTCTGACAC AAGCGCGCGA CATGCTGCAA	120
35	AGTTTTGCGC TAAACCAACG GCAGCAAC	148
	(2) INFORMATION FOR SEQ ID NO: 3192:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3192:	
	CTGCTAATCC GAAATCTTTT TGGAGTTTTA TTAAACCAGC TGCTTCTAAT AGTTTAAGTG	60
	CACGTGCTTG GTTTGACACA TCATTTGGAA TGACAACTTT AGCNCCATCT TTAACCTTTT	120
50	TGACATCTTT AATTTTATCT GCAGAAATAA ATCCATCACG GATGGCTCTT AAATATATGT	180
	TACGTGATAA TTTCTCGANA AATGGCTTCC CT	212

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 141 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3193:	
10	TCGTGCAGTG GTCTTCTGTT AATTGGTGAA TTTGGATACT GGTTATATTC AGCTGCACCG	60
	CAAGCAACTT CTATTGATGG CCNAACTGCC TTTTTACCTC AAGCAATGGG TATGGTAGTT	120
15	GTTGCAGTCA TTTATGGCTT T	141
	(2) INFORMATION FOR SEQ ID NO: 3194:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3194:	
	AATAACGTTC TGAAAAACGA AGATGTTTTA AATGCCTATA TCCGCGGTCG TGGCGGAATG	60
30	GCAGACGCGC TAGGTTGAGG GCCTAGTGGG AGAAATCCCG TGGAGGTTCA AGTCCTCTCG	120
	GCCGCATCAA AATTCTTAAT TTAAATAAGC GGGTGTAGTT TAATGGCAAA ACCTCAGCCT	180
	TCCAAGCTGA TGTTGTGGGT TCGATTCCCA TCACCCGCTC CATAGATAAT TTTAATGAAC	240
35	ATTGAAAACT GAATGACAAT ATGTCAACGT TAATTCCAAA AACGTAACTA TAAGTTACAA	300
	ACATTATTTA GTATTTATGA GCTAATCAAA CATCATAATT TTTATGGAGA GTTTGATCCT	360
	GGCTCAGGAT GAACGCTGGC GGCGTGCCTA ATACATGCAA GTCGAGCGAA CGGACGAGAA	420
40	GCTTGCTTCT CTGaTGTTAG CGGCGGACGG GTGAGTAACA CGTGGATAAC CTACCTATAA	480
	GACTGGGATA ACTTCGGGAA ACCGGAGCTA ATACCGGATA ATATTTTGAA CCGCATGGTT	540
	CAAAAGTGAA AGACGGTCTT GCTGTCACTT ATAGATGGAT CCGCGCTGCA TTAGCTAGTT	600
45	GGTAAGGTAA CGGCTTACCA AGGCAACGAT GCATAGCCGA CCTGAGAGGG TGATCGGCCA	660
	CACTGGAACT GAGACACGGT CCAGACTCCT ACGGGAGGCA GCAGTAGGGA ATCTTCCGCA	720
50	ATGGGCGAAA GCCTGACGGA GCAACGCCGC GTGAGTGATG AAGGTCTTCG GATCGTAAAA	780
	CTCTGTTATT AGGGAAGAAC ATATGTGTAA GTAACTGTGC ACATCTTGAC GGTACCTAAT	840

900

CAGAAAGCCA CGGCTAALAC GTGCCAGCAG CCGCGGTAAT ACGTAGGTGG CAAGCGTTAT

	COGCTCAACC GTGGAGGGTC ATTGGAAACT GGAAAACTTG AGTGCAGAAG AGGAAAGTGG	1020
	AATTCCATGT GTAGCGGTGA AATGCGCAGA GATATGGAGG AACACCAGTG GCGAAGGCGA	1080
5	CTTTCTGGTC TGTAACTGAC GCTGATGTGC GAAAGCGTGG GGATCAAACA GGATTAGATA	1140
	CCCTGGTAGT CCACGCCGTA AACGATGAGT GCTAAGTGTT AGGGGGTTTC CGCCCCTTAG	1200
10	TGCTgGCALA ACGCATTAAG CACTCCGCCT GGGGAGTACG ACCGCAAGGT TGAAACTCAA	1260
70	AGGAATTGAC GGGGACCCGC ACAAGCGGTG	1290
	(2) INFORMATION FOR SEQ ID NO: 3195:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3195:	
	TGGTACAGAG TTATCGCTGG TGGTCCTGTT CGTGCCGTAC TTGAATTATC AGGTATCACT	60
25	GATATCTTAA GTAAATCATT AGGATCAAAC ACACCAATCA ACATGGTTCG TGCTAACAAT	120
	CGATGGTTTA CHAAACCTTA	140
30	(2) INFORMATION FOR SEQ ID NO: 3196:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3196:	
40	CTATTGGATC AGGAGGCAAC TACGCTTAAG CGCAGACTGC CCATTGAAAC GCCATGCATC	60
	GCATTTGTCG CCTGAAGAAA TGGCATATGA GAGCTTGAAA GTAGCGGCTG ATATTTGTGT	120
45	CTTTACCAAC GnTAATATTG TTGTC	145
	(2) INFORMATION FOR SEQ ID NO: 3197:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TGTCGAGTTG GAATTGGACG ATTGAATATC CCATCTCCAT CACTATCAAA GTATGGGAAT	60
	TGAATTGTTT CTAATTCGTA TCCACCTTCT GTCATTGATA ATGTAGGGTT AATTTTAGAA	120
5	CCATCTRCTG TITCTAGTTT TAAGTTCCAC TICTTACCTT CTTCCCAACG TTGACCCATT	180
	GTGCCATTAG GTACTACTAA ACTATCGCTG ATTGCATCAT GAATAACTGG CTTCCATTCn	240
	CCTTGCTCTG TTGTTTGACC TAAGTCACTC GCGCTMAAAA ATCGACCCGC TTTATATCCA	300
10	ThTTCAGCTG	310
	(2) INFORMATION FOR SEQ ID NO: 3198:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3198:	
	TGCTTTATTA ATGCATTGGC TAATAATCCA CTTGTACCAC CACCGGCACA AAGTACTAAG	60
25	AGGTTTGTTC TGTGATATTT GAAGCTTTAG TGCATCGTCT GATACACCAC TTGCCGCTAA	120
	AATTGAATCA GCTTTTnTCG	140
30	(2) INFORMATION FOR SEQ ID NO: 3199:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3199:	
40	TGGTGATTTC AAATCATGAG ACTGGGACAA AATGATGTTT TCATAAAAAT TATTTCGTTG	60
	TTCCACTCTC ATGATTTTT TGATGAACAT AATTACATGA TTGATTGCAT CATTTGTTAA	120
45	AACCAGTGAT TGCAACCTGC CATTCACANG GAAAATTACC TAATAAGTGG CGTATTTACC	180
	AGTC	184
	(2) INFORMATION FOR SEQ ID NO: 3200:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>5</i> 5		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3200:	
	TTGAGAAGCG TTTAGGAAGT AACGTTTAAC GACGACAGTC GTTCAATGCG ATCAAAATGT	60
5	TTTAACACAT GAATCGCTCT CGTACTATTC GTGTGTGACA CATGTTCTTC CAGCATTTGC	120
	TTAATGAATG CTTTTCTTC TTGGTnTTTA ATCTTTGTAA ACG	163
	(2) INFORMATION FOR SEQ ID NO: 3201:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3201:	
20	GTTATGTTTG AGACTATAAT GAATAAATAT TTAGAAATAT GACTCCGATT GTTCGATGCT	60
	TAATTCAGTT AGAAGCATCA TAAGAATGCA TGATTACTGG TGTAAAGATA CGTAATGTnT	120
	TGTATTGACT GGATGTCTTT GGATAGAGT	149
25	(2) INFORMATION FOR SEQ ID NO: 3202:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3202:	
	CAAGTGACTG AGATTACTGA AGTAAACCCG TTACCGCCAC ACTATATTTG TCCGAACTGT	60
	AAAACGAGTG AATTTTTCAA TGATGGTTCA GTAGGATCAG ATTGATTTAC CTGATAAACG	120
40	TGTGAADTTG TGGAGGCCAC TATTAAAGAA GACAGAATCC GTTGAACATT TAGATAAGGG	180
	AAAGTCCGAT TC	192
45	(2) INFORMATION FOR SEQ ID NO: 3203:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3203:	

	CGCCATCIAA CGITITTIGT ATTCGTTGTT GCTGAGCTAG TTGTAAGTGC CHCATTAAGC	120
	ATCTTATAGC GTGATAGCCA TGCGCCAACG TACAAATCTG CTCCGTATTG TACGCACCAC	180
5	TAAGCAGTAC ACACCAGTAA CATTTGATAG CGTTATAGCG CAATATACAG TACA	234
	(2) INFORMATION FOR SEQ ID NO: 3204:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3204:	
	AACGCCATAA GCTACATGTA TGCTTCTTGC ATGGTTATCA TCCTCTCTA ATGACTATCT	60
20	TTTAATTACG NAATGGCTTA CCAGTTTTTA ACATATGTGC AATTCTTTCA TATGATTTTT	120
	AGATTTAGTA GCATAAGCAA TTTCTCCACG TTGATGTACG TGATGTAATG ATTCTGGG	178
25	(2) INFORMATION FOR SEQ ID NO: 3205:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3205:	
35	TATTAATCAC GTTGTTGTGC GTTCGTGTTT TCGCAGTATT GATTTGTTGT TGCGCATTAT	60
•	GCATTGCATT ATTGTACTGC GTAATTGTAC CTGGCTTTTT ACCTTCAGTG CTTACTGGnT	120
	CATCTAAATG ATTITTAGCT GTGATTA	147
40	(2) INFORMATION FOR SEQ ID NO: 3206:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3206:	
	CAGCTGTACT AGTTGAGCGT ATTATCCAAA ACATTTTACG TGATGGCATT GATGTCGATC	60
	GACTITCAGT CGTAACGTTT ACAAACTTAA GCGCACGTCA NATGAAGCAT CGTGTAGACC	120
55		

	(2) INFORMATION FOR SEQ ID NO: 3207:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3207:	
	TAGGGACTTT GAAGCGGAGA GTCTAATGCA TATGGGCAGC ATTATGATCA GCAACTGCTG	60
15	AGAAAAATCC AGTTCTAGCT TGGGATTTAA ATGTGGAGTG GnTTAATGAA TGCATTAAGA	120
	AGCTGCAAGA ACTTATAAGT GTGCA	149
	(2) INFORMATION FOR SEQ ID NO: 3208:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3208:	
30	AAACGGTTTT AGATCGTATT CAATTGAAAA GGACCGGTAT TGAATG1AAT CACACTTAGC	60
30	AGCGATTGAT CAGAACATTT TAAATTAACT TATTTATCAA CGGTATATGA AGGGGATTTG	120
	GAAGATGCGT T	131
35	(2) INFORMATION FOR SEQ ID NO: 3209:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3209:	
	ATAAATTTAT CTATAATCTG TTGCTTGTTT TnCTGTTCTA CAAGTATTTT CACATTAGGT	60
	CCCGCATCCA TTGTAAAATA ACACGGATAC CCCGCTTCTC GGCATTCGTG AACAGCGCCA	120
50	TGACATCATA ACTITCTGCA CAGTAGGAAC GGGGGTG	157
	(2) INFORMATION FOR SEQ ID NO: 3210:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3210:	
	AACGTAATAG ATATGGTACT TACTACATGG GAGAGAGTGC TAGATTCACA AACGGCAATC	60
10	AACCAATCAC AGTAAGAGAA GTGGGGCCAT TCTTATCTnG TCCAGTGGGT TATCAGTTCC	120
	AACCTGGTGG GTATTGTGAT TAT	143
	(2) INFORMATION FOR SEQ ID NO: 3211:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3211:	
25	ATGCATACTG TATGTGTTCC AGCATATACA ATTTTGnCCA TCTTTAATGA CAACTGTACC	60
	ATTITICACA ACATITAATI CATCIAATIC CITACCCTIC AAAGITTATC TGITGATCTC	120
	GGTAAAATTA ATTCTGC	137
30	(2) INFORMATION FOR SEQ ID NO: 3212:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3212:	
40	ATTCACGCTT TAAAGGACGT AAATACACGA CTAGGCTGTT TACCTTTAGA TCTAAATCAG	60
	AACAATTTT TTACCATGGT GTTCCCCTTG AATTAGGAAT TTTATATAAA AATAAGCGGG	120
45	AAGCGTTGTG CCCCGCTTAC TCATAAGCTT TAATTAATGC TAAATAGTCT GACACTAGCG	180
	ATTTGATAAA ACTATACTAA AATTATTTAG AAGTCACTAA GATGCTAATG ACGACNANT	239
	(2) INFORMATION FOR SEQ ID NO: 3213:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3213:	
	CATCCTCAGA GTAGGAATAG CCATACCATC GAATAATTCA CGTACTGTTT CGAATTGAGG	60
5	TTCAAATTCT TGAGTTGTAT AGAGCTCGAA AATMTTTGCC CATTAGCATA ATCAGACTTT	120
	TCAAAAGTCT TGATATTTGA TACCCACGCT	150
	(2) INFORMATION FOR SEQ ID NO: 3214:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214:	
20	CTAAGCATTG GTTTAAACTA ATGTTCAGAG CTTTnTGTGG TTTGTAAANA CAAGTATATT	60
	nCGAGAACAC GTTTTTGTAT AGAGTCTCAA TTATAAAAGT TAGAATAGTT GACAACAGTG	120
	TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGC AATTAACAAG AGTACLTGTT	180
25	GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCaTTGAC	240
	TLANGGANGG GGANTGACCG ATGGGATTAN ANGATCANGC TGTTACCTGG AGANGGTATT	300
30	TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA	360
	TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC	399
	(2) INFORMATION FOR SEQ ID NO: 3215:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215:	
	CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG	60
45	CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT	120
	ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr	180
50	TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT	240
	GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACA TTTCTATAAA	300
	ATTITICAAT AACAATIGCG CCACTAAAAC TCAAAATTIC CACCACCAAC ATCCAAATTA	360

	(2) INFORMATION FOR SEQ ID NO: 3216:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3216:	
	AGTTGCATCA ACTGAATCCA ACGCTACGCA ATACGAATTA TTCCAATCTG GCATGCGTGT	60
15	TGGTAGAGAA ATTTTAGCGA CATCTCGAGC ACGGTTTACC TTGCCTTTnT TGGTGGCCAA	120
	CTTGCTTTAT GCTATGGGTT TTTCAAACTT AAA	153
	(2) INFORMATION FOR SEQ ID NO: 3217:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEOUENCE DESCRIPTION: SEO ID NO: 3217:	
	CTTTGCATAT TCTGGTTTGT AGTATTCATG GTCCGTCAAT TGTAGACCCA TCAATTGCAG	60
30	CCATTACATA TGCGGAATAT CGAAGCGAAC TTCAAGTTGC TTCAAGCTGG TAGAACACGC	120
		138
	ANATAAAATT ATTACATC	130
35	(2) INFORMATION FOR SEQ ID NO: 3218:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3218:	
45	CACTCCAAAC CAAGGATTTA CGTGCTTTAT ATMGAGGTAA AGCACATCAT GTKGTTAATT	60
	TTATGCmTTT TaTTGCmCmA GraTTAaGAG AAATTTTAGC nTCTTTAGGT TTGAAACGTG	120
50	TAGAAGACTT AGTTGGAAGA ACTGATTTAT TACAACGATC aTCAACATTA AAAGCGAATA	180
<i>5</i> 0	GCAAAGCGGC TAGTATTGAT GTTGAAAAAC TGTTATGTCC TTTCGATGGG CCAAACACAA	240
	AAGAAATTCA ACAAAATCAT AATCTTGAGC ATGGATTTGA TTTAACAAAT TTATATGAAG	300
55		

	AACAACGTGA TGTAGGGGTT ATTACAGGTA GTGAGATTTC GAAACAATAT GGAGAAGCAG	420
	GACTTCCTGA AAATACAATT AATGTTTATA CGAATGGTCA TGCTGGTCAA AGTTTGCAGC	480
5	ATATGCA	487
	(2) INFORMATION FOR SEQ ID NO: 3219:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3219:	
	ACCAACTCGG AATCATGCAA TGAACACCAT GGTTGAAATA AGTGAATTGC ATAAGTATCC	60
20	TGGCCTGGCA ATGCTGGTAT AACCTAAAAC CTTGTTGCAC GNAATGTATT CGCTACAATT	120
	AATGTACCTG CAAAACCGTT TAATAAGAAG TTCGAAATCG TTGCACCTGT ATATGG	176
	(2) INFORMATION FOR SEQ ID NO: 3220:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3220:	
35	CTGATTTAGG TAATCTTTGC GCAATTGTTT TTTTACAGTT TCGGCAAATG GGTGCCCnGG	60
	CAAATAAATA TTGGCTATGC TCAAACCTGA ATTAATGGTG GGTGTGTCCG CCATCGTAAT	120
	TGGGnCCGCC TGAAGGGCCG CATATAAATG ATAGTGCTCT TCCGAATAAA AGGTAGGCCA	180
40	TATGTAATTG TTTTGTGGTT ACG	. 203
	(2) INFORMATION FOR SEQ ID NO: 3221:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3221:	
	AGCTAAATCT TGCCAATATG GTATCAACTT TTCATTCCAC TGATAATCAT AAATTTCAGA	60
55		

	GENATICEAG ANATGIATIA ACARCIGGEA EGICIAMING ATTGETANCO GATTGITAC	100
	GTACGTTCAT CGGCTTCTTT CGCTTCTATC GGATCTGGAG AATTGGGATG TTATGACCAC	240
δ	TGAACCACTT ATTTGTAAGC TCTGTCGTGA TTGACTTCAT AATGCTTGCG CTTGnCCTCA	300
	TTTCTAACAA CTCATCCTAC TTACNAAATT ACCCCNGGGG TACACCTGGT CCACTTCATC	360
10	A	361
,,,	(2) INFORMATION FOR SEQ ID NO: 3222:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3222:	
	GGGGCTCCGn GGAGGCAAGG GTAGAAAATG ATGTAAACGC TGCATTACTA GGCGAATTGA	60
	AATTACATCA ATATCAAGCA GAACGGATCT TTTGTATGAC GCTTGGTACA GGCATTGGGG	120
25	GTGCGTACAA GAATTAATCA AGGTTCATGT TG	152
	(2) INFORMATION FOR SEQ ID NO: 3223:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3223:	
	TTTGTTAAAT ATAGGCCCTG CAATGAGTGT ACTGGAATGG CAATAATCAT ACCATACAGT	60
40	AATACATCTC CAACATTTGC CTTnAATTCT TTTCCCATGA CTACCGGTCC TGGGATGTGG	120
	TGG	123
45	(2) INFORMATION FOR SEQ ID NO: 3224:	
4 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3224:	

	TGGTTGGTAA CCGTAAATTA ATGCCTGACA ATGATATTAG CTnCCTAAGC ATATTTCTGA	120
	TGATTTAACA CATTATGAAA CGAGA	145
5	(2) INFORMATION FOR SEQ ID NO: 3225:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3225:	
	GGTATTGTCT AGTCAATTAC TAACACCATT TAATTGTGGN AAGCAAAAGC TAAAGGTTAT	60
	CGTGCGCTAT TGCAGGCATT GATGCTTCCA ACAAAGTCGA GTATTCAGTT GCATCAAAAG	120
20	TTTGCTTT	129
	(2) INFORMATION FOR SEQ ID NO: 3226:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3226:	
	GACACTACCG TTCCCACGTA GCATCAATCG TCTCAGTCGC ATCGTAGTCA TCTGTATGTG	60
35	TTCCAGCATA TACAATTTTG CCATCTTTAA TGACAACGTA CCATTTTCAC AACATTTATT	120
	CATCTANTCC TACCCTCAAA GTTATCGTTG ATCTCGTAAA TAGTCGGCAA	170
40	(2) INFORMATION FOR SEQ ID NO: 3227: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3227:	
50	TTACTGCTTT ACGTTTATCA TTTTCTAATT CANAAATTCG TCATTCAGTT TCAACTTTAT	60
	CGACAGCTGG ACTTTGCGCA GATAAATGTG CTGCTGTAAT ATCTAACACA TCGATTGCTC	120
	TTATCTGGCA ATAATCGTTG	140

<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3228:	
	GCGCCTATAA TTGCGCTACT TGATTTAATT GAGTAGATAA ATCTAATCCG AATAAATCCG	60
	TGACTTGCTT GATAAATAGC AACAATGCTN CAACTAAACC AGTTAGTACT GCTTTGTTTT	120
15	(2) INFORMATION FOR SEQ ID NO: 3229:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3229:	
25	GGCTATACAC CGACTACAGT AACATCTGGT AGCGACATTG AAAAAGACTC TAATGGTTTA	60
	ACAACAACAG GTGTTATTAA TGGTGCTGAT AACATGTACA TTAGATAGTG GNTTCTACA	119
20	(2) INFORMATION FOR SEQ ID NO: 3230:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3230:	60
40	TGGGAATAGC AACCAACAAT GCGACAACAA AGCCCGCTAC AAATCTCCAT NAACTAATTG	60
	CTAAATGTTG GAAAAATTTC TCCAGTCAAC AATGAAAGGC CATATGACTT TTTCCTACAA	120
45	GAGCAGGG	128
	(2) INFORMATION FOR SEQ ID NO: 3231:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AATGCAGCTA TTACTTTTCA CAGATTCCAT ATCGTTCAAC ATTTAAATAG AGAACTTAAT	60
5	AAGTATCGTG TACAAGTTAT GAATGANTAC CGTAATAAAA AAGGACCTGA TTATACAATT	120
	TTC	123
	(2) INFORMATION FOR SEQ ID NO: 3232:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1656 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3232:	
20	GCCTCAAAGA ACATGCTGAA CAGTCATCGC ATTCATATAG TTTGAAGTCT CGTTTAAAAC	60
	CATATCTATC ATTACGGTAT GCATATCTTT TAAAACCTAT TCTTTTGTTA TTAGGACATA	120
	TARATTCATC ATTARGTTCG TCATATTTCC AATTTTGAGT GTCGAAAATG TCACTTTTAA	180
25	ACTITCTAGT TITATCTITA ATAAACATGC CATACGTAAT AAGTGGCGTT TIATTAAAAT	240
	CATCTATAAT GGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT ACAAATAACC	300
30	GAAGLATTTT GAATCATTGT TAAAAATGGA ATTAAAGTTC TAGTATCTGT CGGGTTTTGA	360
	AATAGGTCAT AGGATAAAAC AAATTGAGAA TTTGTCGCTA TTTGTAAATT GTATCCTGGC	420
	TTAAGTTGGC CATTTTTCAT ATGGTCTTCC TTCATTCTCA TAAAAGTTGC ATCATGATCA	480
35	GTTTTAGAAA ALCTATTTCT ATCTTTAAGA ATCGATTTTT GTTCTTCATA TTTATTTTTT	540
	CTTTCGGAAT AATCATCAAA TTTmTTTTTG AACTTCTTAA TCTTAGTTCT TTTTTACGGG	600
	TCTGTTTTCT AATTTGAGTA CTATCTTCGT TCTCAATAGA ATGATTTAAA YCTTCGATTT	660
40	CTTTATCTAA ATGACTACCA ATTAAATCTA TTTCTTCTAT TGTTAAATCG CTATCTCCAT	720
	CTTCTTTTAT CTCTGGTATT ATTTTTCTT CAACTAAGTC ACGATATAAT GTTTTTGAAT	780
	TTTCGTTCAA TTTCGATTCG TGATTTTGAA TACTTTTCTT CCACACAAAT GTATACCTAT	840
45	TGGCATTAGC TTCTACTTTT GTACCATCAA TAAGATTTTG CTTTAAACAT TGACTATGAA	900
	ACTGGATAAA TAAAGATTCA ATTAACGCAT CAGTATTAGG ATTCACTCTA ATACGATTAA	960
50	TAGTTTTATA AGAAGGTGTT TGATTTTGAG CTAACCACAT CATTCGAATA CTGTCATGAA	1020
	GTAATTTCTC TATTCTACGA CCAGAAAATA CAGATTGAGT ATATGCATAT AAGGTGATTT	1080
	TTAACATCAT TTTTGGATGA TAGGATGTTG CGCCACGATG ATGTCTGAAT TTATCGAATT	1140
	CGCTATCAGG TATCGTTTCA ACAATTTCAT TAACATATCG CGAAATATCA ATTTGAGGAA	1200
66		